

September 10, 1975

Application for Exception to Statewide
Rule No. 303-C to Down-Hole Commingle
Production from the East Brunson
Ellenburger, East Brunson McKee and
Drinkard Pools, Sims Well No. 6,
Lea County, New Mexico

File: W4-Ta-154-75

New Mexico Oil Conservation Commission - 2
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey,
Secretary-Director

Gentlemen:

We respectfully request administrative approval, subject to the twenty day waiting period, to down hole commingle production from the East Brunson McKee, East Brunson Ellenburger and Drinkard Pools in our Sims Well No. 6, located in Unit M, 370 feet from south and 330 feet from west lines, Section 24, T-22-S, R-37-E, Lea County, as provided by Statewide Rule No. 303-C. This will re-instate and amend DHC 126, dated May 7, 1973, which has been inactive since the temporary shut in of the Ellenburger and McKee zones. Pertinent well data follows:

1. All three zones to be commingled in the well bore are classified as oil zones and all require artificial lift.
2. The total daily production from the three zones before commingling does not exceed 50 BOPD as allowed for the deepest perforations in the lower zone.
3. Prior to shut in and temporary abandonment on 5-8-74, the Brunson East McKee and Brunson East Ellenburger zones were commingled down hole under Permit DHC 126. On or about 5-7-74, the combined zones tested at 9 BO, 1 BW and 29 Mcf gas per day. On 5-8-74, the well was perforated and recompleted in the Drinkard zone, which produced on test dated 4-3-75 at 17 BO, 4 BW and 133 Mcf gas per day. The oil and or water production is compatible one zone with another and there should be no undue formation of precipitates from combined produced waters.

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4. Crude gravities are: Ellenburger - 42.8°, McKee - 47°, Drinkard - 40.8°. These crudes are classified as intermediate sweet with a posted price of \$12.00 for 40° gravity (and above) crude. Consequently, there would be no difference in the price of the combined crude over that of the crudes produced and sold separately. Royalty and working interests are common throughout and there is no overriding royalty.
5. Bottom hole pressures are estimated at 500# for the Ellenburger, 650# for the McKee, and 776# for the Drinkard.
6. Completion history: Spudded 1-13-68, TD of 7625' on 1-29-68, PBD 7554'. Elevation - 3321' Gr., 8-5/8" csg set in 11" hole at 1137', cmt'd w/460 sx Class H w/10% DD and 2% CaCl₂/sx with 150 sx circ; 4-1/2" csg set at 7625' in 7-7/8" hole, cmt'd w/400 sx TRLW and 650 sx Class H with TOC at 2405'.

Ellenburger zone: Selective perfs 7469-74', 7480-84', 7494-7508', 7526-38', 7546-54'. Treated perfs 7526-54' w/4000 gals 28% acid; perfs 7469-7508' w/1000 gals 15% acid, and perfs 7469-7554 w/1500 gals 15% acid w/30,000 gals MOD brine. IP 4-30-68 at 14 BO, 5 BW, GOR 1049/1, declined to 9 BO, 3 BW, GOR 2275/1 on 3-21-73. Commingled w/McKee 5-7-73 = DHC 126.

McKee: Selective perfs 7328-42', treated w/1500 gals Super HyF mud acid. IP 4-8-73 at 13 BO, 0 BW, GOR 725/1. Commingled w/Ellenburger 5-7-73 = DHC 126.

Combined Ellenburger/McKee production declined to 9 BO, 6 BW on 4-16-74, and these zones temporarily abandoned 5-7-74.

Drinkard: Selective perfs (5-8-74) 6387-7227'; perfs 6969-7227' treated w/500 gals 15% acid; perfs 6387-7227 treated w/5000 gals 28% acid w/ball sealers and 1500 gals 15% acid. IP on 5-28-75 at 25 BO, 20 BW, GOR 12,700/1; production declined to 17 BO, 4 BW, GOR 7824/1 on 4-3-75.

We expect to recover an additional 6030 BO from the Ellenburger, 5930 BO from the McKee, and 17,300 BO from the Drinkard as a result of this commingling.

No application for multiple completion of these zones has been filed. The Ellenburger and McKee zones currently are temporarily abandoned with a CIBP set at 7260'. Your approval of this down hole commingling is requested without the formality of an approved multiple completion. Subject to approval, the well bore will be equipped to re-open the Ellenburger and McKee zones and commingle with the Drinkard zone in the well bore.

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We propose allocation of the combined production be based on the decline production tests as cited herein, and are:

Ellenburger:	9 BO, 3 BW,	20 Mcf/gas per day
McKee:	13 BO, 0 BW,	9 Mcf/gas per day
Drinkard:	17 BO, 4 BW,	133 Mcf/gas per day

Offset operators are hereby notified with the request that their original waivers of objections be mailed directly to your attention, and a copy directed to this office. Mr. Gary Krieger will answer questions on this application, if any arise.

Your consideration and advise will be appreciated.

Very truly yours,


T. Harold McLenore
PHILLIPS PETROLEUM COMPANY

THM:jc

cc: New Mexico Oil Conservation Commission
Box 1980
Hobbs, New Mexico

Offset Operators (List Attached)

and the other side of the mountain.

The first of these is the

the second is the

the third is the

the fourth is the

the fifth is the

the sixth is the

the seventh is the

the eighth is the

the ninth is the

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the thirteenth is the

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the fifteenth is the

the sixteenth is the

the seventeenth is the

the eighteenth is the

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Attachment

OFFSET OPERATORS

John H. Hendricks, 403 Wall Towers West, Midland, Texas 79701

Gulf Oil Corporation, Box 1150, Midland, Texas 79701

Texas Pacific Oil Company, Box 4067, Midland, Texas 79701

Skelly Oil Company, Box 1351, Midland, Texas 79701

Samedan Oil Corporation, 2207 Wilco Bldg., Midland, Texas 79701

Crown Central Petroleum Corporation, Suite 1002, Wilco Bldg., Midland, Texas 79701

Marathon Oil Company, Box 552, Midland, Texas 79701

Well
LEASE PRODUCTION STATISTICS

State New Mexico Operator Julius Petroleum Co Lease Series Well Code No. 6
County San Location M-24-22-37 Field East Brunson (Ellen.) (McKee) Pools and
Drinkard Pool Reservoir

Form 7412 10-58

See attached production curve for prior production

MONTH	WELLS	OIL PROD'N. BBLs.	<u>Water</u> GAL	GAS PROD'N. MCF	MONTH	WELLS	NO. <u>McKee</u> PROD'N. BBLs.	<u>Water</u> GAL	GAS PROD'N. MCF
1973 JAN.		160	48	596	JAN.				
FEB.		495	104	518	FEB.				
MAR.		268	56	612	MAR.				
APR.		0	0	0	APR.		140	0	673
MAY		294	62	396	MAY		293	0	396
JUNE		274	58	399	JUNE		274	0	399
JULY		204	43	501	JULY		205	0	500
AUG.		172	36	459	AUG.		172	13	428
SEPT.		130	27	452	SEPT.		130	10	422
OCT.		221	46	1404	OCT.		221	17	1404
NOV.		180	38	370	NOV.		180	14	370
DEC.		175	37	239	DEC.		175	13	239
TOTALS		2573	555	5946	TOTALS		1790	67	4831
ACCUM.					ACCUM.				
1974 JAN.		160	34	188	1974 JAN.		160	12	188
FEB.		144	30	238	FEB.		144	11	238
MAR.		169	35	598	MAR.		169	13	598
APR.		154	32	414	APR.		154	12	418
MAY		67	27	513	MAY		68	7	513
JUNE		<u>Temporarily abandoned</u>			JUNE		<u>Temporarily abandoned</u>		
JULY					JULY				
AUG.					AUG.				
SEPT.					SEPT.				
OCT.					OCT.				
NOV.					NOV.				
DEC.					DEC.				
TOTALS		694	158	1955	TOTALS		675	55	1955
ACCUM.					ACCUM.				
1974 JAN.					1975 JAN.		329	405	1402
FEB.					FEB.		303	823	1038
MAR.					MAR.		250	758	944
APR.					APR.		246	625	940
MAY		128	102	1837	MAY		299	58	1120
JUNE		340	272	11831	JUNE		164	70	3108
JULY		513	257	12761	JULY		196	39	3298
AUG.		510	145	1868	AUG.				
SEPT.		347	99	1027	SEPT.				
OCT.		331	828	1307	OCT.				
NOV.		322	805	1177	NOV.				
DEC.		162	405	1267	DEC.				
TOTALS		2653	2913	33075	TOTALS		1787	2778	11850
ACCUM.					ACCUM.				

Remarks:

LEASE PRODUCTION STATISTICS

State _____ Operator _____ Lease _____ Code No. _____
 County _____ Location _____ Field _____ Reservoir _____

Form 7412 10-58

MONTH	NO. WELLS	OIL PROD'N. BBLs.	AVE. G/O	GAS PROD'N. MCF	MONTH	NO. WELLS	PROD'N. BBLs.	AVE. G/O	GAS PROD'N. MCF
JAN.					JAN.				
FEB.					FEB.				
MAR.					MAR.				
APR.					APR.				
MAY					MAY				
JUNE					JUNE				
JULY					JULY				
AUG.					AUG.				
SEPT.					SEPT.				
OCT.					OCT.				
NOV.					NOV.				
DEC.					DEC.				
TOTALS					TOTALS				
ACCUM.					ACCUM.				
JAN.					JAN.				
FEB.					FEB.				
MAR.					MAR.				
APR.					APR.				
MAY					MAY				
JUNE					JUNE				
JULY					JULY				
AUG.					AUG.				
SEPT.					SEPT.				
OCT.					OCT.				
NOV.					NOV.				
DEC.					DEC.				
TOTALS					TOTALS				
ACCUM.					ACCUM.				
JAN.					JAN.				
FEB.					FEB.				
MAR.					MAR.				
APR.					APR.				
MAY					MAY				
JUNE					JUNE				
JULY					JULY				
AUG.					AUG.				
SEPT.					SEPT.				
OCT.					OCT.				
NOV.					NOV.				
DEC.					DEC.				
TOTALS					TOTALS				
ACCUM.					ACCUM.				

Remarks: _____

