BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF SHELL WESTERN E & P INC. FOR POOL CREATION, SPECIAL POOL RULES AND CONTRACTION OF BLINEBRY, TUBB, AND DRINKARD POOLS, LEA COUNTY, NEW MEXICO.

CASE NO. 9230

ENTRY OF APPEARANCE

COMES NOW CAMPBELL & BLACK, P.A., and hereby enters its appearance in the above-referenced case on behalf of Kaiser-Francis Oil Company.

Respectfully submitted,

CAMPBELL & BLACK, P.A.

RECEIVED

By: William & Call

SEP 21 1987

OIL CONSERVATION DIVISION

WILLIAM F. CARR Post Office Box 2208 Santa Fe, New Mexico 87504 (505) 988-4421

ATTORNEYS FOR KAISER-FRANCIS OIL COMPANY KELLAHIN, KELLAHIN AND AUBREY

Attorneys at Law El Patio - 117 North Guadalupe Post Office Box 2265 Santa Fe, New Mexico 87504-2265

Telephone 982-4285 Area Code 505

October 5, 1987

RECEIVED

OCT 5 1987

DIL CONSERVATION DIVISION

Mr. David R. Catanach Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

"Hand Delivered"

Re: Shell Western E & P, Inc. NMOCD Cases 9230, 9231, and 9232

Dear Mr. Catanach:

Our firm represented J. R. Cone and appeared in his behalf before the Division in the hearing held on September 24, 1987 to consider Shell Western E & P, Inc's application for pool creation, statutory unitization, and waterflood project for the Blinebry, Tubb, and Drinkard formations for their project in Lea County, New Mexico.

J. R. Cone is an operator in the SW/4 of Section 14, T21S, R37E, with production immediately adjacent to the Shell project.

Mr. Cone has no objection to the granting of the referenced applications provided a satisfactory lease line injection agreement can be reached with Shell. Accordingly, we believe it prudent and appropriate to request the inclusion of the following provision in the waterflood order:

"Finding ()

That there should be no injection into unit injection wells designated 615, 709, or 808 until the applicant has filed a complete signed copy of a leaseline injection agreement between J. R. Cone and the applicant with the Division Director.

"Order ()

That there shall be no injection into unit injection wells 615, 709, or 808 until the applicant has filed a complete signed copy of a leaseline injection agreement between J. R. Cone and the applicant with the Division Director."

W. Thomas Kellahin Karen Aubrey

Jason Kellahin Of Counsel KELLAHIN, KELLAHIN & AUBREY

Mr. David R. Catanach October 5, 1987 Page 2

The suggested language is patterned after a provision found in Order R-7425.

Very truly your Thomas Kellahin

WTK:ca Enc.

cc: Mr. J. R. Cone P. O. Box 6308 Lubbock, Texas 79413

> Perry Pearce, Esq. Montgomery & Andrews P. O. Box 2307 Santa Fe, New Mexico 87504



A Subsidiary of Shell Oil Company

Shell Western E&P Inc.

P.O. Box 576 Houston, TX 77001

October 8, 1987

New Mexico Oil Conservation Division ATTN Mr. David Catanach State Land Office Building, Old Santa Fe Trail P. O. Box 2088 Santa Fe, New Mexico 87504-2088

Gentlemen:

SUBJECT: SHELL WESTERN E&P INC. NMOCD CASES 9230, 9231, AND 9232

Please be advised that Shell Western has no objection to the proposals made by the firm of Kellahin, Kellahin and Aubry, on behalf of J. R. Cone, in the firm's letter of same subject dated October 5, 1987, signed by W. Thomas Kellahin (copy attached).

Yours very truly,

James H. Amitherman

James H. Smitherman Production Administration Advisor Western Division

JHS:LGC

Attachment

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



November 10, 1937

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Mr. W. Perry Pearce Montgomery and Andrews P. O. Box 2307 Santa Fe, New Mexico Re: CASE NO. 9230 ORDER NO. R-8539

Applicant:

Shell Western R & P Inc.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

Florene Davidson

FLORENE DAVIDSON OC Staff Specialist

Copy of order also sent to:

Hobbs OCD <u>x</u> Artesia OCD <u>x</u> Aztec OCD

Other Thomas Kellahin, William F. Carr



A Subsidiary of Shell Oil Company



P.O. Box 576 Houston, TX 77001

May 25, 1989

Mr. David Catanach State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87504

COSTA REPORTED SEP 1 5 1989 OIL CONSERVATION DIV.

Dear Mr. Catanach:

SUBJECT: NEDU NOS. 602 AND 608 NORTHEAST DRINKARD UNIT, LEA COUNTY, NEW MEXICO CASE NO. 9230, ORDER NO. R-8539

Shell Western E&P Inc., as operator of the Northeast Drinkard Unit (NEDU), requests approval to use the NEDU No. 602 to produce from the Tubb gas pool, and the No. 608 to produce from the Blinebry gas pool (see attached map). This is in contradiction to original plans where the usage of these two wellbores was reversed, but is believed a necessary arrangement in order to maximize gas production from this 160-acre proration unit.

Because Nos. 602 and 608 are each located on the same 80-acre tract, one will be utilized as a Blinebry gas producer, the other as a Tubb gas producer. Inasmuch as additional Tubb drainage points will be situated one location east and southeast of No. 608, it is believed that it should be reserved for Blinebry production, while the No. 602 produces from the Tubb. In this fashion, additional Tubb gas reserves can be recovered that would otherwise be left untapped. Should this new arrangement be in violation to the acreage dedication requirements of Rule 6 of the subject order, please advise.

We attach Forms C-101 and C-102 for NEDU No. 608 only. Forms for NEDU No. 602 will be submitted at a later time.

Thank you for your cooperation; we apologize for any inconvenience this change in wellbore utilization may cause. Should you have any questions, please call Van Spence of our Production Engineering Department in Houston at (713) 870-3331.

Yours very truly,

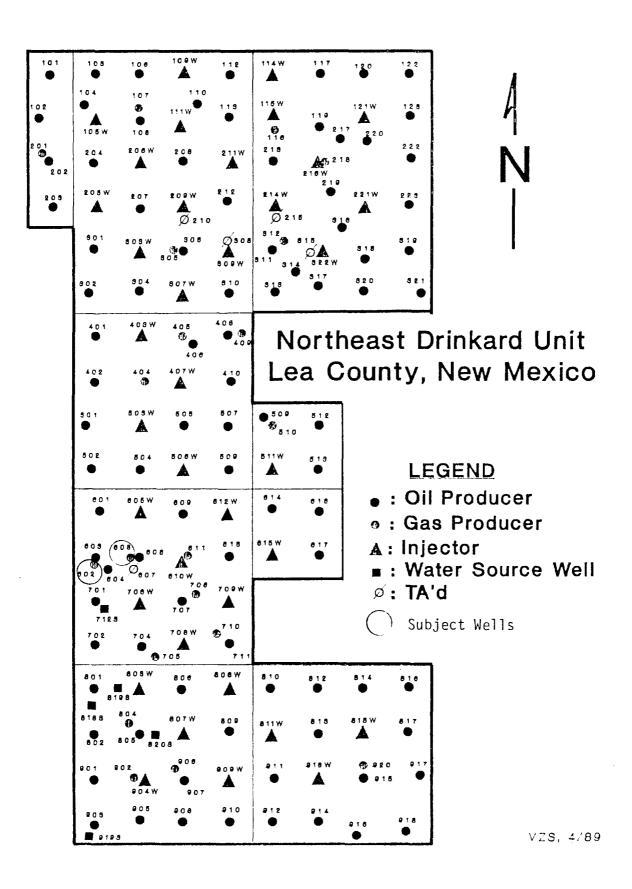
A Amitherman

J. H. Smitherman Regulatory Supervisor Western Division

VZS:pf

Attachments

cc: Mr. Jerry Sexton State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88241-1980



Normana DRINKARD UNIT

GAS WELL SUMMARY

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS GOVERNOR September 25, 1989

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEV MEXICO 87504 (505) 927-5800

Shell Western E & P Inc. P.O. Box 576 Houston, Texas 77001

Attention: J. H. Smitherman

Re: Northeast Drinkard Unit Well No. 602 Unit E, Section 15, T-21S, R-37E

> Northeast Drinkard Unit Well No. 608 Unit F, Section 15, T-21S, R-37E

Dear Mr. Smitherman:

Reference is made to your letter dated May 25, 1989, whereby you requested authorization to utilize the Northeast Drinkard Unit Well No. 602 as a Tubb gas producer, and to utilize the Northeast Drinkard Unit Well No. 608 as a Blinebry gas producer. This request is contrary to the provisions contained in Division Order No. R-8539, which authorized the NEDU Well No. 602 to be utilized as a Blinebry producer and the NEDU Well No. 608 to be utilized as a Tubb producer. It is our understanding that the proposed utilization should result in a more efficient method of producing Blinebry and Tubb gas reserves underlying the proration unit, and that the proposal is in conformity with Rule No. (6) of said Order No. R-8539.

You are therefore authorized to utilize the NEDU Well No. 602, as described above, as a Tubb gas producer and to utilize the NEDU Well No. 608, as described above, as a Blinebry gas producer.

Sincerely, William J. LeMay Director

xc: OCD-Hobbs Case File: 9230

STATE OF NEW MEXICO

DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. ORDER NO.

> > NOMENCLATURE

APPLICATION OF SHELL WESTERN E&P INC. FOR POOL CREATION, SPECIAL POOL RULES, AND CONTRACTION OF BLINEBRY TUBB, AND DRINKARD POOLS, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

This case came on for hearing at 8:15 a.m. on September 23, 1987, at Santa Fe, New Mexico before the Oil Conservation Division of the State of New Mexico hereinafter referred to as (the "Division").

NOW on this ____ day of September, 1987, the Division, having considered the testimony and the record and being otherwise fully advised in the premises,

FIND THAT:

1. Due public notice has been given as required by the law and the rules and regulations of the Division and the Division has jurisdiction of this cause and the subject matter thereof.

2. The Applicant, Shell Western E&P Inc. seeks the creation of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool with horizontal limits including the acreage described in Exhibit "A" attached to this Order.

3. The Applicant seeks to have the vertical limits of the North Eunice Blinebry-Tubb-Dinkard Oil and Gas Pool comprised of the zones currently part of the Blinebry Oil and Gas Pool, the Tubb Oil and Gas Pool, and the Drinkard Pool. Applicant also seeks the contraction of the pool boundaries of the Blinebry Oil and Gas Pool, the Tubb Oil and Gas Pool, and the Drinkard Pool to eliminate the acreage described in Exhibit "A" attached to this Order from those present pool boundaries.

4. Applicant has presented evidence that over the history of operations of the Blinebry Oil and Gas Pool, the Tubb Oil and Gas Pool, and the Drinkard Pool the Division has allowed the three formations to be commingled in many well bores throughout the area described in Exhibit A hereto. Applicant has also demonstrated that the effect of this frequent allowance of commingling of these three formations within many of the well bores in this areas has been to develop effective communication

between the three zones within this area and has resulted in comparable pressures and production response from these three pools.

5. The effect of the commingling of these three zones is that the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool now constitutes one single common source of supply.

6. Within the proposed pool boundaries as set forth in Exhibit A hereto, there are separate oil and gas zones and that wells classified as gas wells in the Blinebry Oil and Gas Pool and the Tubb Oil and Gas Pool have been and should remain subject to gas prorationing under the provisions of Order R-8170 as amended.

7. Applicant Shell Western has proposed special pool rules to govern operations within this pool (Exhibit B hereto) which should be temporarily adopted to insure continued proration of gas wells within the pool boundaries and order the operations within the pool.

8. Applicant proposes to convert some gas wells to oil wells or to injection wells within a proposed waterflood in this pool and also proposes to convert some oil wells into gas wells, in order to allow continued proration of gas well production, the wells listed on Exhibit "C" hereto are hereby classified as gas wells within this pool. Pursuant to the provisions of Rule 5 of Exhibit "B" the District Supervisor should be authorized to reclassify wells within the pool upon proper showing.

9. That the creation of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool and the adoption of the Special Pool Rules set out in Exhibit B are necessary to permit the Applicant to successfully carry out secondary recovery operations.

10. Granting this Application will serve to prevent waste and will protect the correlative rights of interest owners within the boundaries of this proposed pool.

IT IS THEREFORE ORDERED THAT:

1. There is hereby created the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool with horizontal boundaries as set forth in Exhibit A attached hereto. The vertical limits of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be the interval commonly known as the Blinebry, Tubb and Drinkard formations as encountered between the log depths of 5,530 feet and 6,680 feet in the Shell Western Argo No. 8 Well located 660 feet FSL 2,310 feet FWL, Section 15, Township 21 South, Range 37 East, Lea County, New Mexico as recorded on the log of that well run on June 21, 1951 and filed with the Oil Conservation Division.

2. The horizontal boundaries of the Blinebry Oil and Gas Pool, the Tubb Oil and Gas Pool, and the Drinkard Pool are contracted to eliminate all acreage described in Exhibit "A" attached hereto from inclusion within the boundaries of those 3 pools.

3. The following Special Pool Rules are hereby adopted as Temporary Special Pool Rules for a period of three (3) years.

SPECIAL RULES AND REGULATIONS FOR THE NORTH EUNICE BLINEBRY-TUBB-DRINKARD OIL AND GAS POOL

RULE 1.

A standard gas proration unit in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 160 acres.

RULE 2.

A standard oil proration unit in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 40 acres.

RULE 3.

Acreage may be simultaneously dedicated to a gas well and an oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool, thereby receiving separate oil and gas allowables.

RULE 4.

Any acreage within the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall not be assigned to a gas well proration unit if the acreage is: 1) located within 1320' of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool boundary, and 2) such acreage is not contiguous to offset non-unit gas proration unit.

RULE 5.

Any well within the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool designated as a gas well shall be subject to the gas proration rules set forth in Commission Order No. R-8170, as amended for the Blinebry Oil and Gas Pool or Tubb Oil and Gas Pool or both as appropriate. The District Supervisor shall have authority to classify any well in the pool as a gas well or an oil well upon appropriate showing by the operator.

RULE 6.

An oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be a well producing from the vertical and horizontal limits of the Pool and not classified as a gas well.

RULE 7.

The limiting Gas-Oil Ratio for oil wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 6000 cubic feet of gas per barrel of oil.

RULE 8.

Commingling in the well bore of production from oil zones and gas zones in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool is prohibited.

RULE 9.

In submitting Form C-115 on gas wells producing from the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool, the operator shall estimate the condensate and gas volumes produced by each well in the Blinebry, Tubb, and Drinkard zones by using the ratios as reflected in the most recent tests submitted if separate metering equipment for each zone is not utilized.

RULE 10.

Oil wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall receive oil and casinghead gas allowables as provided in either Rule 701F.3 or Rules 503, 505 and 506 of the Division Rules and Regulations.

RULE 11.

An oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool may be recompleted as a gas well in the Blinebry or Tubb formations provided the operator of such well makes application to and receives approval from the District Supervisor for such recompletion.

RULE 12.

All gas wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be subject to the same pool rules as would be applicable to gas wells completed in either or both the Blinebry Oil and Gas Pool and the Tubb Oil and Gas Pool; except that such gas wells shall not be subject to any provision in either set of pool rules relating to classification by gas-liquid hydrocarbon ratio, nor shall they be subject to any provision within such rules prohibiting multiple assignments of acreage, except as provided by Rule 4 above. To the extent applicable rules of either the Blinebry Oil and Gas Pool or the Tubb Oil and Gas Pool conflict with the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool rules, the latter shall control.

RULE 13.

Special Pool Rules and Regulations for the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be applicable only within the pool boundaries.

RULE 14.

Any expansion of the boundaries of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be only upon application filed after notice under Rule 1207 and hearing.

4. Applicant, Shell Western, shall appear at a hearing of the Oil Conservation Division in November 1990 and show cause why such rules should not be abolished.

5. The wells shown on Exhibit "C" hereto are classified as gas wells. Pursuant to the provisions of Rule 5 of the Special Pool Rules adopted herein, Exhibit "B" to this order the District Supervisor is authorized to reclassify wells upon proper showing.

6. The effective date of this Order and the changes to vertical limits included herein shall be November 1, 1987.

7. Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico on the day and year hereinabove designated.

STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

William J. LeMay Director

[wpp/74]

NORTHEAST DRINKARD UNIT

The horizontal limits of the Northeast Drinkard Unit shall include the following described lands:

Section	2	All
Section		All
Section	4	Lots 1, 8, 9, 16
Section	10	All
Section	11	SW/4
Section	14	NW/4
Section	15	All
Section	22	All
Section	23	All

...

All in Township 21 South, Range 37 East, Lea County, New Mexico

SPECIAL RULES AND REGULATIONS FOR THE NORTH EUNICE BLINEBRY-TUBB-DRINKARD OIL AND GAS POOL

RULE 1.

A standard gas proration unit in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 160 acres. RULE 2.

A standard oil proration unit in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 40 acres. RULE 3.

Acreage may be simultaneously dedicated to a gas well and an oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool, thereby receiving separate oil and gas allowables.

RULE 4.

Any acreage within the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall not be assigned to a gas well proration unit if the acreage is: 1) located within 1320' of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool boundary, and 2) such acreage is not contiguous to offset non-unit gas proration unit.

RULE 5.

Any well within the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool designated as a gas well shall be subject to the gas proration rules set forth in Commission Order No. R-8170, as amended for the Blinebry Oil and Gas Pool or Tubb Oil and Gas Pool or both as appropriate.

EXHIBIT "B"

The District Supervisor shall have authority to classify any well in the pool as a gas well or an oil well upon appropriate showing by the operator.

RULE 6.

An oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be a well producing from the vertical and horizontal limits of the Pool and not classified as a gas well. RULE 7.

The limiting Gas-Oil Ratio for oil wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be 6000 cubic feet of gas per barrel of oil.

RULE 8.

Commingling in the well bore of production from oil zones and gas zones in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool is prohibited.

RULE 9.

In submitting Form C-115 on gas wells producing from the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool, the operator shall estimate the condensate and gas volumes produced by each well in the Blinebry, Tubb, and Drinkard zones by using the ratios as reflected in the most recent tests submitted if separate metering equipment for each zone is not utilized.

SPECIAL RULES AND REGULATIONS - Page 2

RULE 10.

Oil wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall receive oil and casinghead gas allowables as provided in either Rule 701F.3 or Rules 503, 505 and 506 of the Division Rules and Regulations.

RULE 11.

An oil well in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool may be recompleted as a gas well in the Blinebry or Tubb formations provided the operator of such well makes application to and receives approval from the District Supervisor for such recompletion.

RULE 12.

All gas wells in the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be subject to the same pool rules as would be applicable to gas wells completed in either or both the Blinebry Oil and Gas Pool and the Tubb Oil and Gas Pool; except that such gas wells shall not be subject to any provision in either set of pool rules relating to classification by gas-liquid hydrocarbon ratio, nor shall they be subject to any provision within such rules prohibiting multiple assignments of acreage, except as provided by Rule 4 above. To the extent applicable rules of either the Blinebry Oil and Gas Pool or the Tubb Oil and Gas Pool conflict with the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool rules, the latter shall control.

SPECIAL RULES AND REGULATIONS - Page 3

RULE 13.

Special Pool Rules and Regulations for the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be applicable only within the pool boundaries.

RULE 14.

Any expansion of the boundaries of the North Eunice Blinebry-Tubb-Drinkard Oil and Gas Pool shall be only upon application filed after notice under Rule 1207 and hearing.

[WPP:47]

NORTHEAST DRINKARD UNIT

UNIT GAS WELLS

Well	Unit Well Designation			Location (All T21S-R37E)	
SWEPI Taylor Glenn #9	107	Sec 3	3,	1585' FNL, 1980' FW	ЛL
Meridian St. Sec 2 #8	116	Sec 2	2,	5790' FSL, 660' FW	1L
SWEPI Livingston #12	201	Sec 4	4,	4520' FSL, 660' FE	L
Meridian St. Sec 2 #3	215	Sec 2	2,	3175' FSL, 660' FW	7L
SWEPI St. Sec 2 #15	216	Sec 2	2,	3546' FNL, 1650' FW	1L
Conoco Hawk B-3 #12	305	Sec 3	3,	1980' FSL, 1980' FE	CL .
Conoco Hawk B-10 #2	404	Sec 1	10,	1980' FNL, 2310' F	WL
Conoco Hawk B-10 #9	405	Sec 1	10,	660' FNL, 1980' F	ΈL
Meridian Dauron #2	409	Sec 1	10,	660' FNL, 525' F	ΈL
Meridian Gutman #2	510	Sec 1	11,	1980' FSL, 990' F	WL
Cities Service St. S #1	L 602	Sec 1	15,	1980' FNL, 660' F	WL
Cities Service St. S #5	5 608	Sec 1	15,	1980' FNL, 1880' F	WL
SWEPI St. Sec 15 #1	611	Sec 1	15,	1980' FNL, 1978' F	FEL
SWEPI Argo #5	705	Sec 1	15,	330' FSL, 2310' F	WL
Marathon Warlick C #1	706	Sec 1	15,	1980' FSL, 1980' F	'EL
Marathon Warlick C #9	710	Sec 1	15,	990' FSL, 990' F	FEL
SWEPI Argo A #11	804	Sec 2	22,	1650' FNL, 1650' F	WL
SWEPI Turner #10	902				WL
SWEPI Turner #14	906				FEL
SWEPI Sarkeys #2	913				WL