

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

November 3, 1986

TONEY ANAYA GOVERNOR

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

Anadarko Production Company P.O. Box 1330 Houston, Texas 77251-1330

Attention: Theresa A. Rausheck Senior Regulatory Assistant

Re: Administrative Order NFL-144

Dear Ms. Rausheck:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and Oil Conservation Division Order No. R-6013 for the following described well:

> E.W. Walden Well No. 12, located 2250 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.

THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for in infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Penrose Skelly Pool, and the standard spacing unit in said pool is 40 acres. (4) A standard 40-acre oil proration unit comprising the SE/4 NW/4 (Unit F) of Section 15, Township 22 South, Range 37 East, is currently dedicated to the applicant's E.W. Walden Well No. 9 also located in Unit F of said Section.

(5) Said unit is <u>not</u> being effectively and efficiently drained by the existing well(s) on the unit.

(6) The drilling and completion of the well for which a finding is sought should result in the production of additional gas reserves underlying the subject proration unit which would not otherwise be recovered.

(7) All the requirements of Division Order No. R-6013 have been complied with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(8) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the E.W. Walden Well No. 12 as described above, as an infill well on the existing 40-acre oil proration unit comprising the SE/4 NW/4 (Unit F) of Section 15, Township 22 South, Range 37 East, NMPM, Penrose Skelly Pool, Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

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

Sincerely,

Michael E. Stogner Examiner

Maria and for and

N.M.O.C.D. - Hobbs

NFLRK03

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Michael E. Stogner Examiner

N.M.O.C.D. - Hobbs

NATURAL GAS POLICY ACT INFILL FINDINGS

E. W. Walden	No.12
Rule 5	Forms ClO1 & ClO2 (copies attached)
Rule 6	Penrose Skelly Pool
	40 acre proration units
Rule 7	Division Order #R-6959 (copy attached)
Rule 8 A-F	Next page
Rule 8 G	The drainage area, calculated by volumetric analysis, indicates that the E. W. Walden No.9 has drained ap- proximately 20 acres. This is supported by low recovery efficiencies when comparing the EUR to the OOIP.
Rule 9 A.	Grayburg Structure map (attached).
В.	The ultimate recovery on Walden No.12 estimated to be 30 MBO. This was calculated by taking a percentage of the Walden lease's incremental EUR after the No.12 & No.13 wells were drilled. This percentage was based upon production rates and cumulative recoveries from

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E. W. Walden Lease Decline Curves (attached)

Rule 8 A-f Wells drilled on Proration Unit SE/4 NW/4 Section 15, T22S, R37E

E. W. Walden No.12 2250' FNL & 1350' FWL, Section 15, T22S, R37E Lea County, New Mexico Spud Date - 5-13-82 Completion Date - 8-26-82 Production rate (9-1-83) 5 BOPD & 7 BWPD

E. W. Walden No.2 1980' FNL & FWL, Section 15, T22S, R37E Lea County, New Mexico Spud Date - NA Completion Date - 1938 Mechanical Problems - Collapsed Casing P&A - 3-1-76 This well produced from Upper Grayburg

E. W. Walden No.9 1650' FNL & 1880' FWL, Section 15, T22S, R37E Lea County, New Mexico Spud Date - 5-29-69 Completion Date - 7-1-69 Production rate (9-1-83) 3 BOPD + 28 BWPD



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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 7547 Order No. R-6959

APPLICATION OF ANADARKO PRODUCTION COMPANY FOR AN UNORTHODOX OIL WELL LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 14, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>28th</u> day of April, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Anadarko Production Company, seeks approval of an unorthodox oil well location 2550 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, to test the Grayburg formation, Penrose Skelly Pool, Lea County, New Mexico.

(3) That the SE/4 NW/4 of said Section 15 is to be dedicated to the well.

(4) That a well at said unorthodox location will better enable applicant to produce the oil underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox location.

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the subject pool, will prevent the economic -2-Case No. 7547 Order No. R-6959

loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the application of Anadarko Production Company for an unorthodox oil well location for the Grayburg formation is hereby approved for a well to be located at a point 2550 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, Penrose Skelly Pool, Lea County, New Mexico.

(2) That the SE/4 NW/4 of said Section 15 shall be dedicated to the above-described well.

(3) That 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 OIL CONSERVATION DIVISION

JOE D. RAMEY Director

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P.O. BOX 1330

October 17, 1983

State of New Mexico Energy and Minerals Department 525 Camino de los Marquez Santa Fe, New Mexico 87501

Re: Infill Findings E.W. Walden No. 12 E.W. Walden No. 13 Lea County, New Mexico

Gentlemen:

Enclosed are the original and one (1) copy of Anadarko Production Company's application for an infill well finding on each of the referenced wells. This information was requested February 21, 1983 and should complete the NGPA applications for the E.W. Walden #12 and #13.

Please contact me if this information does not suffice.

Very truly yours,

ANADARKO PRODUCTION COMPANY

ausheck NIXA D Theresa A. Rausheck

Regulatory Assistant

TAR:bjm enclosures

NATURAL GAS POLICY ACT INFILL FINDINGS

E. W. Walden No.12

Rule 5	Forms C101 & C102 (copies attached)
Rule 6	Penrose Skelly Pool
	40 acre proration units
Rule 7	Division Order #R-6959 (copy attached)
Rule 8 A-F	Next page
Rule 8 G	The drainage area, calculated by volumetric analysis, indicates that the E. W. Walden No.9 has drained ap- proximately 20 acres. This is supported by low recovery efficiencies when comparing the EUR to the OOIP.
Rule 9 A.	Grayburg Structure map (attached).

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E. W. Walden Lease Decline Curves (attached)

Rule 8 A-f Wells drilled on Proration Unit SE/4 NW/4 Section 15, T22S, R37E

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Ellective 1-1-65

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 7547 Order No. R-6959

APPLICATION OF ANADARKO PRODUCTION COMPANY FOR AN UNORTHODOX OIL WELL LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on April 14, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>28th</u> day of April, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Anadarko Production Company, seeks approval of an unorthodox oil well location 2550 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, to test the Grayburg formation, Penrose Skelly Pool, Lea County, New Mexico.

(3) That the SE/4 NW/4 of said Section 15 is to be dedicated to the well.

(4) That a well at said unorthodox location will better enable applicant to produce the oil underlying the proration unit.

(5) That no offset operator objected to the proposed unorthodox location.

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the subject pool, will prevent the economic -2-Case No. 7547 Order No. R-6959

loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the application of Anadarko Production Company for an unorthodox oil well location for the Grayburg formation is hereby approved for a well to be located at a point 2550 feet from the North line and 1350 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, Penrose Skelly Pool, Lea County, New Mexico.

(2) That the SE/4 NW/4 of said Section 15 shall be dedicated to the above-described well.

(3) That 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

JOE D. RAMEY Director

SEAL



FIELD: <u>PENROSE Skelly</u> RESERVOIR: <u>JRAYBUNG</u> LEASE/UNIT: <u>E.W. WZ/JEN "P"</u> PERFS: _____ STATE: 1M OPERATOR: APC 15-22-37 CO./PH LOCATION: NO. WELLS: 10 000 15 SELLI IF > 0 .60 11111 1111 Hili ЦЩ 111 115 ž 범인 11 111 11 널 1 님 19.74 19.75 19 76 1978 19 80 19 81 19 82 19 87 19 88 19 90 1977 1979 19 83 19 84 19 25 19 86 19 91 19_29 19 92 19 9 TIME IN YEARS LEASE NAME <u>E.W. Walden</u> 3029179 (012) CODE NO. WELL NO.

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11.

SPECIAL RULES AND REGULATIONS NATURAL GAS POLICY ACT INFILL FINDINGS Administrative procedure (Amended Pedruary 8, 1980)

A. DEPINITIONS

RULE 1. For purposes of this administrative procedure only, the following definitions are adopted:

- a. Infill well: An additional well which has been drilled for production on an established proration unit.
- B. APPLICABILITY

RULE 2. These special rules and regulations shall apply to effective and efficient drainage findings for completed infill wells pursuant to Section 271.305 of the final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978. (These special rules and regulations do not apply to infill wells drilled in the Blanco Mesaverde or Basin-Dakota Pools. Infill wells in these two pools are covered by Rule 15 B of the "Special Rules for Applications for Wellhead Price Ceiling Category Determinations" promulgated by Division Order No. R-5878 as amended by Order No. R-5878-A.)

C. JUSTIFICATION FOR FINDINGS

- RULE 3. The Division Director or a Division Examiner may find that an infill well is necessary:
 - a. upon a showing by the operator that an additional well is needed to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and
 - b. upon receipt of waivers from all offset operators, or if no offset operator has entered an objection to the infill finding within 20 days after receipt of the application by the Director.
- RULE 4. The Director may set any application for hearing at his discretion or at the request of an applicant.

Exhibit A Order R-6013-A D... FILING REQUIREMENTS

RULE 5. Each applicant shall submit a copy of the approved Form C-101 for the infill well and Form C-102 showing the protation unit dedicated.

RULE 6. Applicant shall give the name of the pool in which the infill well has been drilled and the standard spacing unit size therefor.

RULE 7. If applicable, the applicant shall give the number of the Division order approving the non-standard proration unit dedicated to the well.

RULE 8. The applicant shall submit a description of all wells drilled on the proration unit (including the completed infill well) which are or have been completed in the same pool or reservoir as the proposed infill well showing:

a. lease name and well location;

b. spud date;

- c. completion date;
- d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
- . the current rate of production/ and
- f. date of plug and abandonment, if any;
- g. a clear and concise statement indicating why the existing well(s) on the proration cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit.

RULE 9. The applicant shall submit geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

- a. formation structure map
- b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined
- o. any other supporting data which the applicant deems to be relevant which may include:
 - (1) porosity and permeability factors
 - (2) production/pressure decline curves
 - (3) effects of secondary recovery or pressure maintenance operations -
- RULE 10. Applications for infill findings shall be filed in duplicate with the Santa Fe office of the Division.
- RULE 11. All operators of proration or spacing units offsetting the unit for which an infill finding is sought shall be notified of the application by certified or registered mail, and the application shall state that such notification has been given.

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ANADARKO PRODUCTION COMPANY



October 17, 1983

State of New Mexico Energy and Minerals Department 525 Camino de los Marquez Santa Fe, New Mexico 87501

Re: Infill Findings E.W. Walden No. 12 E.W. Walden No. 13 Lea County, New Mexico

Gentlemen:

Enclosed are the original and one (1) copy of Anadarko Production Company's application for an infill well finding on each of the referenced wells. This information was requested February 21, 1983 and should complete the NGPA applications for the E.W. Walden #12 and #13.

Please contact me if this information does not suffice.

Very truly yours,

ANADARKO PRODUCTION COMPANY

113-820-1101 Theresa A. Rausheck

Regulatory Assistant

TAR:bjm enclosures

Application lucls notice to all abbeet operators

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Tubbs Abo Penn Miss From 0 14 609 17 728 30 067 36 600 40 	To 509 728 567 500 226 From Muid cu ft From From Rocov From	Thickness in Feet 1609 119 1339 533 426 Dr 3387' up in p/d. 3688' too sm nd W/5 nd 31' 3874' erod 2 3872'	Sand au Anhydr: Anhydr: Sand & Iime, S ill Sto to 3553 5 min. Recover to 3824 ill to m race of hvy gas to 3894 38° slig to 3966	T T T T T T T T T T T T T T T T T T T	FORMAT for for for for for for for for	Gar up in co. Gas Vo lpi r wate Gar up in red 10' in as c t drl est 25% of No cas or g nud W/ta mir test .	n 12 n 1., 3 r 1 Hr v XXX fluti fluti fluti fluti fluti	T. T. T. T. T. T. T. T. T. T. T. T. T. T	Penn	Formation <u>51</u> 600 1 900 1400 2060 2539 2800 3100 3190 3190 3510 3620	Lope Tests -1/ -1/ 2- 3-1/ 3-1/ 3-1/ 3-1/ 3-1/ 3-1/ 3-1/ 3-1
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Company or Operator Anorada Petroleura Corporation ,

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Name...

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July 5, 1953 Drawer D, Monument, New Merilco^(Date)

Position or Title Austint District Superintenient

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