#### STATE OF NEW MEXICO

## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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

CASE NO. 13,199

APPLICATION OF MELROSE OPERATING COMPANY )
TO REINSTATE AND AMEND DIVISION ORDER )
R-11,720 FOR ITS ARTESIA UNIT WATERFLOOD )
PROJECT, EDDY COUNTY, NEW MEXICO )

## OFFICIAL EXHIBIT FILE (2 OF 2: Exhibit 2) EXAMINER HEARING

BEFORE: MICHAEL E. STOGNER, Hearing Examiner

January 22nd, 2004

Santa Fe, New Mexico

This matter came on for hearing before the New Mexico Oil Conservation Division, MICHAEL E. STOGNER, Hearing Examiner, on Thursday, January 22nd, 2004, at the New Mexico Energy, Minerals and Natural Resources

Department, 1220 South Saint Francis Drive, Room 102, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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Melrose Operating Artesia Unit Waterflood Expansion Application Eddy County, New Mexico

### Offset Operator Notification List

Vastar Resources 15375 Memorial Drive Houston, TX 77079-4101 Yates Drilling Co. 110 S. 4<sup>th</sup> ST, Yates Bldg Artesia, NM 88210

Marbob Energy PO Box 227 Artesia, NM 88211-0227 Fulton Co. PO Box 1121 Artesia, NM 88211-1121

Mewbourne Oil PO Box 7698 Tyler, TX 75711-7698 Mack Energy PO Box 960 Artesia, NM 88211-0960

Laure, C.E. Muncy PO Box 1370 Artesia, NM 88211-1370 Yates Energy PO Box 2323 Roswell, NM 88202

R.B. Operating 5100 E. Skelly, Suite 650 Meridian Tower Tulsa, OK 74135-6549 Brothers Production Co. PO Box 7515 Midland, TX 79708

W.E. Jeffers PO Box 65 Artesia, NM 88210 Sandlot Energy PO Box 711 Lovington, NM 88260

B & W Oil Co. R-252 N. Haldeman Rd Artesia, NM 88210 Vintage Drilling PO Box 158 Loco Hills, NM 88255

BP Permian Business Unit 501 Westlake Park Blvd. WL Suite 200 Houston, TX 77070 Louis Dreyfus Natural Gas Corp. 14000 Quail Springs Parkway, Ste 600 Oklahoma City, OK 73134

Devon Energy Corporation 20 North Broadway, Suite 1500 Oklahoma City, OK 73102 Aspen Oil 2625 N. Albertson Dr Hobbs, NM 88240 Warren Hanson 342 Haldeman Rd Artesia, NM 88210

Ricks Exploration 210 Park Avenue Oklahoma City, OK 73102

SDX PO Box 5061 Midland, TX 79704

### Surface Owner:

Bogle LTD PO Box 441 Artesia, NM 88210

State of New Mexico Commissioner of Public Lands PO Box 1148 Santa Fe, NM 87504-1148 Dominion Oklahoma-Texas 1415 Louisiana Ste 2700 Houston, TX 77002

Doyle Hartman 500 N. Main Midland, TX 79701



December 19, 2003

Mike Corjay Melrose Energy Company 5813 NW Grand Blvd., Ste B Oklahoma City, OK 73118

Re.

D State No. 35 (Formerly Empire Abo Unit G-38)

2310' FSL & 1650' FWL, Section 35, T17S, R28E

Eddy County, New Mexico Recomplete from Abo to Yeso

**Dear Working Interest Owner:** 

Marbob plans to take over the Empire Abo Unit E-40, rename it the D State No. 35, plug back from the Abo to the Yeso, and complete the well in the Yeso.

We propose to perforate the Yeso and pump an acid frac treatment. Please call if you have questions.

Sincerely.

Brian Collins Engineer

BC/mp Enclosures





**December 19, 2003** 

Mike Corjay Melrose Energy Company 5813 NW Grand Blvd., Ste B Oklahoma City, OK 73118

Re:

D State No. 34 (Formerly Empire Abo Unit E-40) 660' FNL & 660' FEL, Section 35, T17S, R28E

Eddy County, New Mexico Recomplete from Abo to Yeso

Dear Working Interest Owner:

Marbob plans to take over the Empire Abo Unit E-40, rename it the D State No. 34, plug back from the Abo to the Yeso, and complete the well in the Yeso.

We propose to perforate the Yeso and pump an acid frac treatment. Please call if you have questions.

Sincerely.

Brian Collins Engineer

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BC/mp Enclosures



### NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Governor (S. A. Marie) Joanna Prukop spane, and the control of the control Cabinet Secretary

March 5, 2003

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Mclrose Operating Company 5813 NW Grand Blvd. Suite B Oklahoma City, Oklahoma 73118

Attention: Mr. Michael J. Coriay

Re: Division Order No. R-11720 Artesia Unit Waterflood Project

Eddy County, New Mexico

Dear Mr. Coriav:

By Division Order No. R-11720 dated February 5, 2002, the Division authorized Melrose Operating Company to expand its Artesia Unit Waterflood Project by converting an additional fourteen (14) wells to injection. Injection was to occur into the Queen-Grayburg-San Andres interval of the Artesia Queen-Grayburg-San Andres Pool, Pursuant to the provisions of this order, injection into any of the fourteen (14) injection wells was not to occur until such time as the thirty-four (34) area-of-review wells, identified on Exhibits No. B, C, D and E of Order No. R-11720 were re-plugged, re-cemented, or otherwise demonstrated to the satisfaction of the Division that the wells were adequately cased and cemented so as not to serve as conduits for fluid to escape from the injection formation.

An examination of Division Form C-115's shows that injection into the Artesia Unit Well No. 44 (API No. 30-015-01796) re-commenced in April, 2002. A further examination of Division files, and a conversation with Mr. Tim Gum, the supervisor of the Division's Artesia District Office, demonstrates that no remedial work has yet been conducted on the thirty-four (34) area-of-review wells.

In addition, Ordering Paragraph No. (4) states that injection into the Artesia Unit Well No. 44 was not to commence until such time as the production casing in the well was cemented from the existing cement top to the surface. An examination of the well file for this well shows that this work has not been done.

It appears that Melrose Operating Company is injecting into the Artesia Unit Well No. 44 in violation of Division Order No. R-11720.

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Melrose Operating Company Artesia Unit Waterflood Project March 5, 2003 Page 2

Injection into the Artesia Unit Well No. 44 shall immediately cease until such time as the requirements set forth in Division Order No. R-11720 are complied with.

If work has been performed on the Artesia Unit Well No. 44, or on any of the area-of-review wells described in Order No. R-11720, please forward this information to the Santa Fe Office of the Division.

In addition, Order No. R-11720 contains a provision whereby the injection authority for the subject wells terminates one year after the issue date of the order if the operator has not commenced injection operations, or if the operator has not requested an extension of the permit. It appears therefore, that the injection authority for the Artesia Unit Wells No. 2, 3, 10, 11, 12, 13, 16, 17, 18, 19, 46, 54 and 57 has expired. In order to obtain injection authority for these wells, a new Form C-108 (Application to Inject) must be filed with the Division.

Please advise the Santa Fe Office of the Division of the date the Artesia Unit Well No. 44 was shut in, and any plans Melrose has to comply with the requirements set forth in Order No. R-11720.

If you should have any questions regarding this notice, please contact Mr. David Catanach at (505) 476-3466.

Sincercly,

David Catanach

Engineer

Xc:

Ms. Lori Wrotenbery

File-Case No. 12709

Mr. Tim Gum

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

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

> CASE NO. 12709 ORDER NO. R-11720

APPLICATION OF MELROSE OPERATING COMPANY TO EXPAND ITS ARTESIA UNIT WATERFLOOD PROJECT AND AMEND DIVISION ADMINISTRATIVE ORDER WFX-768, EDDY COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

### BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on September 6 and 20, 2001, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 5th day of February, 2002, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

### FINDS THAT:

- (1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.
- (2) By Order No. R-2876 issued in Case No. 3213 on March 5, 1965, the Division, upon the application of International Oil and Gas Corporation, approved a waterflood project in the Artesia Queen-Grayburg-San Andres Pool in Sections 25 and 26, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. This waterflood was subsequently expanded by Division Order No. R-3311, dated September 11, 1967, to include additional lands within Sections 34, 35 and 36, Township 17 South, Range 28 East, NMPM, and Sections 2 and 3, Township 18 South, Range 28 East, NMPM.
- (3) The above-described secondary recovery project is currently designated the Artesia Unit Waterflood Project. This project is operated by Melrose Operating Company and currently comprises the following-described area in Eddy County, New Mexico:

### TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM

Section 25:

SW/4 SW/4

Section 26:

NW/4 SW/4, S/2 S/2

Section 34:

SE/4

Section 35:

All

Section 36:

W/2 NW/4, SE/4 NW/4, SW/4

### TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

Section 2:

NW/4 NE/4, N/2 NW/4, SW/4 NW/4, W/2 SW/4,

SE/4 SW/4

Section 3:

All

- (4) The applicant, Melrose Operating Company ("Melrose"), seeks:
  - (a) authority to expand its Artesia Unit Waterflood Project by converting the Artesia Unit Wells No. 2, 3, 10, 11, 12, 13, 16, 17, 18, 19, 44, 46, 54 and 57 to injection wells (all as shown on Exhibit "A" attached to this order); and
  - (b) to amend Division Order No. WFX-768 issued on November 28, 2000, which order authorized Melrose to convert its Artesia Unit Wells No. 23 and 29, located respectively in Units L and N of Section 35, Township 17 South, Range 28 East, NMPM, to injection wells within the Artesia Unit Waterflood Project.
- (5) BP Amoco Production, an offset operator, appeared at the hearing through legal counsel.
- (6) Division Order No. WFX-768 authorized Melrose to convert the Artesia Unit Wells No. 23 and 29 to injection within the subject secondary recovery project provided that Melrose first:
  - (a) cement squeeze the interval from the existing cement top to the surface behind the production casing in the Artesia Unit Wells No. 12 and 13

located respectively in Units E and F of Section 35, Township 17 South, Range 28 East, NMPM; and

- (b) either cement squeeze the interval from the existing cement top to a depth of 1,700 feet behind the production casing in the Empire Abo Unit "G" Well No. 38 located in Unit K of Section 35, Township 17 South, Range 28 East, NMPM, or demonstrate to the Division that the existing cement top behind the production casing in this well is at or above 1,700 feet.
- (7) At the hearing, Melrose testified that it does not seek to amend Division Order No. WFX-768, but rather requests Division confirmation that it has complied with the remedial cement requirements contained within this order.
- (8) Melrose's evidence demonstrates that it has fully complied with the remedial cement requirements set forth within Division Order No. WFX-768, and should therefore be allowed to commence injection into the Artesia Unit Wells No. 23 and 29
- (9) Division records indicate that four of the wells Melrose seeks to convert to injection have previously been approved as injection wells within the Artesia Unit Waterflood Project. These wells are described as follows:
  - (a) the Artesia Unit Well No. 16, located in Unit E of Section 36, Township 17 South, Range 28 East, NMPM, was originally permitted by Division Order No. R-3311;
  - (b) the Artesia Unit Well No. 44, located in Unit E of Section 3, Township 18 South, Range 28 East, NMPM, was originally permitted by Division Order No. R-3311;
  - (c) the Artesia Unit Well No. 10, located in Unit C of Section 35, Township 17 South, Range 28 East, NMPM, was originally permitted by Division Order No. WFX-385 dated February 6, 1973; and
  - (d) the Artesia Unit Well No. 18, located in Unit K of Section 36, Township 17 South, Range 28 East,

NMPM, was originally permitted by Division Order No. WFX-470 dated November 21, 1978.

- (10) Although injection authority may still be valid for the Artesia Unit Wells No. 10, 16, 18 and 44, these wells were permitted prior to the time the Division made major changes in the process it utilizes to permit injection wells.
- (11) The Artesia Unit Wells No. 10, 16, 18 and 44 should be re-permitted under modern Division regulations, and any provisions contained within Division Orders No. R-3311, WFX-385 and WFX-470 relating to injection authority for these wells should be superseded by this order.
- (12) The evidence presented by Melrose demonstrates that the Artesia Unit Wells No. 44 and 46:
  - (a) do not have surface casing;
  - (b) have a cement top behind the production casing at a depth of approximately 1,500 feet; and
  - (c) are not adequately cased and cemented so as to protect fresh water aquifers that occur at depths from 0-450 feet below the surface.
- (13) Prior to commencing injection operations into the Artesia Unit Wells No. 44 and 46, Melrose should be required to cement the production casing string from the top of the cement (approximately 1,500 feet) to the surface.
- (14) The evidence presented by Melrose further demonstrates that the cement top behind the production casing in the Artesia Unit Well No. 54 is at a depth of 2,169 feet. According to applicant's evidence, it proposes to inject into this well through the perforated interval from 2,170 feet to 2,406 feet.
- (15) Prior to commencing injection operations into the Artesia Unit Well No. 54, Melrose should be required to cement the production casing string from the top of the cement (approximately 2,169 feet) to the surface.
- (16) The evidence presented by Melrose further demonstrates that the Artesia Unit Well No. 57 is currently plugged and abandoned.

- (17) In the event the Artesia Unit Well No. 57 is re-entered and converted to injection, Melrose should be required to set a production casing string in the wellbore and circulate cement to surface on this casing string.
- (18) Within the one-half mile "area of review," there are approximately two hundred-fourteen (214) wells that have penetrated to or through the Artesia Queen-Grayburg-San Andres Pool. Of these two hundred-fourteen (214) wells, thirty-five (35) wells are plugged and abandoned, one hundred seventy-four (174) wells are active, and five (5) wells have no data available regarding their construction or status.
- (19) Exhibit "B" attached to this order is a list of three plugged and abandoned wells within the "area of review" that are not plugged adequately so as to preclude the migration of fluid from the proposed injection zone.
- (20) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "B," Melrose should be required to:
  - (a) re-enter and re-plug these wells in a manner approved by the Supervisor of the Division's Artesia District Office; or
  - (b) provide additional geologic, engineering or well data to the Supervisor of the Division's Artesia District Office that will demonstrate that these wells, in their current condition, will not serve as a conduit for the migration of fluid from the proposed injection zone.
- (21) Melrose identified seven (7) potential problem wells that were drilled in the 1920's for which there is limited well construction data on file with the Division. These wells are shown on Exhibit "C" attached to this order.
- (22) Melrose has proposed that prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "C," it will run a cement bond log on these wells to determine the cement top behind the production casing. If the cement behind the production casing is insufficient to isolate the injection interval, Melrose will perform remedial cement work on the well(s) in a manner approved by the supervisor of the Division's Artesia District Office.
- (23) Melrose has also identified three (3) potential problem wells that were drilled in the 1920's for which there is limited well construction data on file with the

Division. In addition, the data available indicates that these wells may not have surface casing set in the wellbore. By virtue of not having surface casing, these wells may not be adequately constructed so as to protect fresh water aquifers. These wells are shown on Exhibit "D" attached to this order.

- (24) Melrose has proposed that prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "D," it will dig out the wellhead to determine whether surface casing is present in the wellbore. In addition, it will run a cement bond log on these wells to determine the cement top behind the production casing. If the cement behind the production casing is not adequate to isolate the injection zone and protect fresh water, Melrose will perform remedial cement work on the well(s) in a manner approved by the supervisor of the Division's Artesia District Office.
- (25) There are a number of additional wells within the "area of review," shown on Exhibit "E," that may or may not be adequately cemented so as to confine the injected fluid to the proposed injection interval.
- (26) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "E," Melrose should be required to consult with the supervisor of the Division's Artesia District Office and present additional geologic and/or engineering data to demonstrate that the cement behind the production casing in these wells is sufficient to effectively isolate the injection interval.
- (27) The supervisor of the Division's Artesia District Office may require Melrose to perform remedial cement operations on any well shown on Exhibit "E" in the event Melrose cannot satisfactorily demonstrate that the cement behind the production casing in these wells is sufficient to effectively isolate the injection interval.
- (28) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.
- (29) Injection should be accomplished through 2 3/8 inch internally plasticlined tubing installed in a packer set within 100 feet of the uppermost injection perforation in each well. The casing-tubing annulus should be filled with an inert fluid, and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (30) The injection wells or pressurization system should be equipped with a pressure control device or acceptable substitute that will limit the surface injection

pressure to 0.2 psi/foot of depth to the uppermost injection perforation, all as shown on Exhibit "A."

- (31) Prior to commencing injection operations, the casing in each well should be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.
- (32) The operator should give advance notice to the supervisor of the Division's Artesia District Office of the date and time (i) injection equipment will be installed; (ii) the mechanical integrity pressure tests will be conducted on the proposed injection wells, and (iii) remedial work will be conducted on any of the wells shown on Exhibits "A," "B," "C," "D" or "E," so these operations may be witnessed.
- (33) The operator should immediately notify the supervisor of the Division's Artesia District Office of the failure of the tubing, casing or packer in any of the injection wells, or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the project area, and should take all steps as may be timely and necessary to correct such failure or leakage.
- (34) The proposed expansion of the Artesia Unit Waterflood Project should be approved.
- (35) The injection authority granted herein for any of the wells shown on Exhibit "A" should terminate one year after the date of this order if the operator has not commenced injection operations into the well; provided, however, the Division, upon written request by the operator, may grant an extension for good cause.

#### IT IS THEREFORE ORDERED THAT:

- (1) The applicant, Melrose Operating Company, is hereby authorized to expand its Artesia Unit Waterflood Project by converting to injection the Artesia Unit Wells No. 2, 3, 10, 11, 12, 13, 16, 17, 18, 19, 44, 46, 54 and 57, all as shown on Exhibit "A" attached to this order. The applicant is further authorized to inject into the Artesia Queen-Grayburg-San Andres Pool through the gross interval from approximately 1,897 feet to 2,750 feet within the subject injection wells.
- (2) Those portions of Division Orders No. R-3311, WFX-385 and WFX-470 relating to injection authority for the Artesia Unit Wells No. 10, 16, 18 and 44 should be superseded by this order.
- (3) Pursuant to the request of Melrose Operating Company, the Division hereby certifies that the applicant has satisfactorily complied with the remedial cement

requirements set forth within Division Administrative Order No. WFX-768, and is hereby authorized to commence injection into its Artesia Unit Wells No. 23 and 29, located respectively in Units L and N of Section 35, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico.

- (4) Prior to commencing injection operations into the Artesia Unit Wells No. 44, 46 and 54, the applicant shall cement the production casing string from the top of the cement to the surface.
- (5) In the event the Artesia Unit Well No. 57 is re-entered and converted to injection, the applicant shall, prior to commencing injection operations, set a production casing string in the wellbore and circulate cement to surface on this casing string.
- (6) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "B," the applicant shall:
  - a. re-enter and re-plug these wells in a manner approved by the Supervisor of the Division's Artesia District Office; or
  - b. provide additional geologic, engineering or well data to the Supervisor of the Division's Artesia District Office that will demonstrate that these wells, in their current condition, will not serve as a conduit for the migration of fluid from the proposed injection zone.
- (7) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "C," the applicant shall run a cement bond log on these wells to determine the cement top behind the production casing. The cement bond log shall be submitted to the supervisor of the Division's Artesia District Office for analysis. In the event the cement behind the production casing in any of these wells is insufficient to isolate the injection interval, the applicant shall perform remedial cement work on the well(s) in a manner approved by the supervisor of the Division's Artesia District Office.
- (8) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "D," the applicant shall dig out the wellhead to determine whether surface casing is present in the wellbore. In addition, the applicant shall run a cement bond log on these wells to determine the cement top behind the production casing. The cement bond log shall be submitted to the supervisor of the Division's Artesia District Office for analysis. In the event the cement behind the production casing is not adequate to isolate the injection zone and protect fresh water, the

cenent Book logs on 1,2,3,4

applicant shall perform remedial cement work on the well(s) in a manner approved by the supervisor of the Division's Artesia District Office.

- (9) Prior to commencing injection into any injection well located within ½ mile of the wells shown on Exhibit "E," Melrose shall consult with the supervisor of the Division's Artesia District Office and present additional geologic and/or engineering data to demonstrate that the cement behind the production casing in these wells is sufficient to effectively isolate the injection interval. The supervisor of the Division's Artesia District Office may require the applicant to perform remedial cement operations on any well shown on Exhibit "E" in the event the applicant cannot satisfactorily demonstrate that the cement behind the production casing in these wells is sufficient to effectively isolate the injection interval.
- (10) The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.
- (11) Injection shall be accomplished through 2 3/8 inch internally plastic-lined tubing installed in a packer set within 100 feet of the uppermost injection perforation in each well. The casing-tubing annulus shall be filled with an inert fluid, and a gauge or approved leak-detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (12) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to 0.2 psi/foot of depth to the uppermost injection perforation, all as shown on Exhibit "A."
- (13) Prior to commencing injection operations, the casing in each well shall be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.
- (14) The operator shall give advance notice to the supervisor of the Division's Artesia District Office of the date and time (i) injection equipment will be installed; (ii) the mechanical integrity pressure tests will be conducted on the proposed injection wells, and (iii) remedial work will be conducted on any of the wells shown on Exhibits "A," "B," "C," "D" or "E," so these operations may be witnessed.
- (15) The operator shall immediately notify the supervisor of the Division's Ariesia District Office of the failure of the tubing, casing or packer in any of the injection wells, or the leakage of water, oil or gas from or around any producing or plugged and

abandoned well within the project area, and shall take all steps as may be timely and necessary to correct such failure or leakage.

- (16) The injection authority granted herein for any of the wells shown on Exhibit "A" shall terminate one year after the date of this order if the operator has not commenced injection operations into the well; provided, however, the Division, upon written request by the operator, may grant an extension for good cause.
- (17) Jurisdiction is hereby 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

LORI WROTENBERY

Director

SEAL

### Exhibit "A" Division Order No. R-11720 Artesia Unit Waterflood Project Approved Injection Wells

Well Name & Number	API Number	Well Location	Injection Interval	Packer Depth	Maximum Surface Inj. Pressure
Artesia Unit No. 2	30-015-01563	330' FSL & 330' FWL. Unit M. Section 26, T-17S, R-28E	1,897'-2,135'	1830	379 esiG
Artesia Unit No. 3	30-015-01565	330" FSL & 1750" FWL. Unit N. Section 26. T-175. R-28E	1.9321-2.1421	1850	J86 PSIG
Artesia Unit No. 10	30-015-01749	160' FNL & 1952' FWL. Unit C. Section 35, T-175, R-28E	1,959*-2,173*	1880	392 PSIG
Artesia Unit No. 11	30-015-02654	360" FNL & 360" FWL. Unit D. Section 35, T-175, R-28E	1.914"-2.140"	1850	383 PSIG
Artesia Unit No. 12	30-015-01745	1980' FNL & 660' FWL. Unit E. Section 35, T-175, R-28E	1,998`-2.290*	1940	400 PSIG
Artesia Unit No. 13	30-015-01754	1980' FNL & 1980' FWL. Unit F. Section 35. T-17S. R-28E	2,040*-2,300*	1990.	408 PSIG
Artesia Unit No. 16	30-015-01759	1980' FNL & 660' FWL, Unit E. Section 36, T-175, R-28E	2.236'-2.654'	2156	447 PSIG
Artesia Unit No. 17	30-015-01761	1980' FNL & 1980' FWL. Unit F. Section 36. T-175. R-28E	2.3061-2.6851	<b>3</b> 360,	461 PSIG
Artesia Unit No. 18.	30-015-01762	1980' FSL & 1980' FWL, Unit K. Section 36, T-17S, R-28E	2.356*-2.750*	2290'	471 PSIG
Artesia Unit No. 19	30-015-01760	1980' FSL & 660' FWL, Unit L. Section 36, T-175, R-28E	2.296"-2.584"	2240	459 PSIG
Artesia Unit No. 44	30-015-01798	2310° FNL & 990° FWL. Unit E. Section 3. T-18S. R-28E	2.085"-2.420"	2025	417 PSIG
Ariesia Unit No. 46	30-015-02541	2310" FNL & 2267" FWL, Unit F, Section 3, T-18S, R-28E	2,325'-2,419'	2075"	425 PSIG
Artesia Unit No. 54	30-015-01801	1654' FSL & 2272' FWL. Unit K. Section 3, T-18S, R-28E	2.170'-2.406'	2120'	434 PSIG
Artesia Unit No. 57	N/A	1570' FSL & 1070' FWL Unit L. Section 3, T-18S. R-28E	2.322'-2,432'	2312*	464 PSIG

# Exhibit "B" Division Order No. R-11720 Artesia Unit Waterflood Project Inadequately Plugged Wells

Well Name & Number	API Number	Well Location
Donnelly Drilling Sinclair State "B" No. 3	30-015-01765	660' FSL & 1980' FEL. Unit O, Section 36, T-17S, R-28E
Maloney Chambers State No. 1	30-015-02559	2390' FNL & 1070' FEL. Unit H, Section 4, T-18S, R-28E
Welch State No. 1	30-015-01729	2310' FNL & 250' FWL. Unit E, Section 35, T-17S, R-28E

# Exhibit "C" Division Order No. R-11720 Artesia Unit Waterflood Project Wellbores with Limited Construction Data

Well Name & Number	API Number	Well Location
Melrose Operating Company		
Artesia Unit No. 40	30-015-01799	1070' FNL & 1570' FWL, Unit C, Section 3. T-18\$, R-28E
Melrose Operating Company Artesia Unit No. 45	30-015-01775	2390' FNL & 1570' FWL, Unit F, Section 3, T-18S, R-28E
Melrose Operating Company		
Artesia Unit No. 58	30-015-01791	1070' FSL & 250' FWL, Unit M, Section 3. T-18S, R-28E
Mclrose Operating Company		
Levers State No. 1	30-015-02580	1070' FSL & 1070' FEL. Unit P, Section 4. T-18S. R-28E
Melrose Operating Company		
Levers State No. 2	30-015-02581	250' FSL & 1070' FEL, Unit P, Section 4, T-18S, R-28E
Melrose Operating Company		,
Levers State No. 3	30-015-02582	250' FSL & 250' FEL. Unit P. Section 4, T-18S. R-28E
Melrose Operating Company		
Levers State No. 4	30-015-02583	1070' FSL & 250' FEL, Unit P, Section 4, T-18S, R-28E

# Exhibit "D" Division Order No. R-11720 Artesia Unit Waterflood Project Wells With Limited Construction Data That May Not Have Surface Casing

Well Name & Number	API Number	Well Location
Metrose Operating Company Artesia Unit No. 43	30-015-01790	1980' FNL & 250' FWL, Unit E, Section 3, T-18S, R-28E
Metrose Operating Company Artesia Unit No. 56	30-015-01797	1570' FSL & 1570' FWL, Unit K, Section 3, T-18S, R-28E
Metrose Operating Company Artesia Unit No. 55	30-015-01798	2390' FSL & 1570' FWL, Unit K, Section 3, T-18S, R-28E

# Exhibit "E" Division Order No. R-11720 Artesia Unit Waterflood Project "Area of Review" Wells That May Not Be Adequately Cemented

Well Name & Number	API Number	Well Location
Metrose Operating Company Artesia Unit No. 27	30-015-01709	705' FSL & 550' FEL, Unit P. Section 34, T-17S, R-28E
Vintage Drilling Carpers-Levers No. 2	30-015-01705	330' FSL & 330' FWL, Unit M, Section 34, T-17S, R-28E
BP Amoco Empire Abo Unit No. E-39	30-015-01735	660' FNL & 1980' FEL, Unit B, Section 35, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 14	30-015-01755	1980' FNL & 1980' FEL, Unit G, Section 35, T-17S, R-28E
Metrose Operating Company Artesia Unit No. 15	30-015-02126	1980' FNL & 990' FEL, Unit H, Section 35, T-17S, R-28E
BP Amoco Empire Abo Unit "G" No. 37	30-015-01734	2310' FSL & 330' FWL, Unit L. Section 35, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 28	30-015-01732	990' FSL & 330' FWL, Unit M. Section 35, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 29	30-015-01742	990' FSL & 1650' FWL, Unit N, Section 35, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 31	30-015-01744	990' FSL & 990' FEL, Unit P. Section 35, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 7	30-015-10080	480' FNL & 330' FWL, Unit D, Section 36, T-17S, R-28E
R. B. Operating Company Five "J" No. 2	30-015-10543	1980' FNL & 1980' FEL. Unit G, Section 36, T-17S, R-28E
Melrose Operating Company Artesia Unit No. 32	30-015-01764	990' FSL & 330' FWL, Unit M, Section 36, T-17S, R-28E
Metrose Operating Company Artesia Unit No. 33	30-015-01758	330' FSL & 1631' FWL, Unit N, Section 36, T-17S, R-28E
Metrose Operating Company Artesia Unit No. 35	30-015-01785	330' FNL & 1650' FWL, Unit C, Section 2, T-18S, R-28E
Melrose Operating Company Artesia Unit No. 37	30-015-01800	990' FNL & 990' FEL. Unit A, Section 3, T-18S, R-28E

Well Name & Number	API Number	Well Location
Melrose Operating Company Artesia Unit No. 39	30-015-02542	992' FNL & 2275' FWL, Unit C. Section 3, T-18S, R-28E
Melrose Operating Company Artesia Unit No. 42	30-015-02547	990' FNL & 330' FWL, Unit D, Section 3, T-18S, R-28E
Metrose Operating Company Artesia Unit No. 47	30-015-02545	1980' FNL & 1980' FEL, Unit G, Section 3, T-18S, R-28E
Metrose Operating Company Artesia Unit No. 48	30-015-01789	2310' FNL & 990' FEL, Unit H, Section 3, T-18S, R-28E
Melrose Operating Company Artesia Unit No. 53	30-015-07880	1650' FSL & 1650' FEL, Unit J, Section 3, T-18S, R-28E
Melrose Operating Company Artesia Unit No. 54	30-015-01801	1654' FSL & 2272' FWL, Unit K, Section 3, T-18S, R-28E

### Legal Notice NOTICE OF APPLICATION FOR INJECTION WELL PERMIT

Melrose Operating Company, c/o P.O. Box 953, Midland, TX 79702 will file the New Mexico Oil Conservation Division Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for water injection into the Artesia Unit for Well #21 located in Section 35, T17S, R28E, 1980 FEL and 1980 FSL (J), and Well #53 located in Section 3, T18S, R28E, 1650 FSL & 1650 FEL (J), Eddy County, New Mexico.

The injection water will be sourced from the Melrose, Artesia Unit wells producing from the Grayburg/San Andres/Penrose formation at a depth of 1800' to 2715' with maximum surface pressure of .2 psi to top perforations (465 psi) and a maximum rate of 400 bbls water per day.

All interested parties opposing the application must file objection with the New Mexico Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days of this notice. Additional information can be obtained by contacting Ann Ritchie, Regeulatory Agent, Melrose Operating Co., c/o P.O. Box 953, Midland, TX 79702, (432) 684-6381.

APPROVED BY -----

CONITIONS OF APPROVAL IF ANY

Juld Sep D

FEB 18 2003

DATE -

# NEW MEXICO STATE LAND O. CE SANTA FE, NEW MEXICO DEPARTMENT OF THE STATE GEOLOGIST SANTA FE

### NOTICE OF INTENTION TO ABANDON WELL

Notice must be given at least five days before work is to begin to the State Geologist or to the proper Oil and Gas Inspector. It is desirable that a representative of the Department of the State Geologist witness the plugging of wells being abandoned whenever possible. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in duplicate.

		Artesia,	, N. Mex., Aug. 10, 19.84
Mr. E. R. We	116		
Santa Fe, Dear Sir:	New Mexico.		
You are hereby	notified that it is our inte	ention to abandon	Well
			7. Rge. 28
			Eddy County.
	ice work on		· · · · · · · · · · · · · · · · · · ·
-	r wishing to abandon the w		•
<b>Zon-</b> produ	ativa.		
mon hode			
The present cor	ndition of the well is as follo	ows:	
		t of 10" Casing.	
	592 fee	t of 8-1/4" Casing t of 6-5/8" Casing	<b>3•</b>
		·	5
	DUPLICA	TE	
The work whi	ch we propose to do in a		follows:
to bottom bottom of	of 8-1/4" casing.	Pull 6-5/8" casi Pull 8-1/4" casi 10" casing and fi	five sacks of cement.  ng. Fill with mud  ng. Fill with mud to  ll with mud to surface
		Sincerely yours,	
ApprovedAUG	1 4 1934	WELC	H BROTHERS
Except as follows:		By U. Q. L	Company or Operator.
		<u> </u>	artner
			s regarding this well to
/ /		Name Welch Br	others
	e Goolegist or Oil and Gas Inspec	Artesia,	New Mexico
BIEL	е <del>сониции о</del> н вии свя 1 <b>вяр</b> е	CLOF	

KINR.

## N. \ XIĆO OIL CONSERVATION CC \ ION Santa Fe, New Mexico

### MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of not	ice by checking below:
NOTICE OF INTENTION TO TEST CASING SHUT-OFF	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL
NOTICE OF INTENTION TO CHANGE PLANS	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
NOTICE OF INTENTION TO REPAIR WELL	Notice of intention to abandon well
NOTICE OF INTENTION TO DEEPEN WELL	NOTICE OF INTENTION TO PLUG WELL
OIL CONSERVATION COMMISSION, Santa Fe, New Mexico	Artegia, New Mexico Aug. 10, 34
Gentlemen: Following is a notice of intention to do certain work as de	scribed below at the
Company or Operator Lease	Well Noin
of Sec. 35 T. 17 R. 28	N. M. P. M., Artesia Field.
County.	
FULL DETAILS OF PRO	POSED PLAN OF WORK
FOLLOW INSTRUCTIONS IN THE RULES	AND REGULATIONS OF THE COMMISSION
The present condition of the well is 592' of 8\frac{1}{2}" casing; 1100' of 6 5/8" of the work which we propose to do in about hole with mud to 1900I. Cement with mud to 1100'. Pull 6 5/8" casing asing. Full 8\frac{1}{2}" casing. Fill with 0" casing and fill with mud to surface.	asing.  andoning the well is as follows:  with five sacks of cement. Fill  g. Fill with mud to bottom of 82 mud to bottom of 10 casing. Pull
Approved August 14, 19 34 except as follows:	Welch Brothers  Company or Operator  By V. P. Welch
	Position Fartner  Send communications regarding well to
OIL CONSERVATION COMMISSION,	<b>.</b>
By J. D. Hunter	Name Welch Brothers
Title Oil & Gas Inspector	Address Artesia, New Mexico

Submit 3 Copies To Appropriate District  Office  District I  1625 N. French Dr., Hobbs, NM, 8240  District II  1301 W. Grand Ave., Artesia MM 88210  District III  1000 Rio Brazos Rd., Aztes, ONM 87410 ECE/VED  District IV  1220 S. St. Francis Dr., Santa Ee, NM  87505  SUNDRY, NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO DETEL OR TO DEEPEN OR PLUG B. DIFFERENT RESERVOIR. USE "APPLICATION FOR FERMIT" (FORM C-101) FOR SUPPOSALS.)  1. Type of Well:  Oil Well A Gas Well Other  2. Name of Operator  B-P America Production Co.  3. Address of Operator  P.O. Box 1089 Eunice, New Mexico	Resources  WELL API NO. 30-015-01734  5. Indicate Type of Lease STATE STATE FEE  6. State Oil & Gas Lease No. 674  7. Lease Name or Unit Agreement Name:
4. Well Location	
Unit Letter L: 2310 feet from the SOUTH line and 330 feet	et from the WEST line
	Range 28E NMPM Eddy County NM
10. Elevation (Show whether DR, RI KB 11'	
11. Check Appropriate Box to Indicate Natur NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON RE	e of Notice, Report or Other Data  SUBSEQUENT REPORT OF:  MEDIAL WORK  ALTERING CASING
TEMPORARILY ABANDON   CHANGE PLANS   CO	MMENCE DRILLING OPNS. PLUG AND
	ABANDONMENT SING TEST AND
	HER:
<ol> <li>Describe proposed or completed operations. (Clearly state all pertinent starting any proposed work). SEE RULE 1103. For Multiple Completic recompilation.</li> <li>9/6/02 Tagged CIBP @ 6024'. Filled hole w/9.5 salt gel mud. Spotted 25sxs</li> </ol>	ons: Attach wellbore diagram of proposed completion or
9/9/02 Perf'd 51/2" @ 770'. Squeezed 50 sxs cmt from 770-350', 85/8" csg Perf'd 51/2" @ 60'. Circulated 51/2"and 85/8" w/15 sxs cmt to surf	shoe to 130' above the Yates Tagged TOC at 357'.
9/14/02 Cut off well head & anchors 3' BLG. Cleaned Location. Set dry ho	le marker.
43 S	
I hereby certify that the information above is true and complete to the best of SIGNATURE PLANTING TITLE PROPERTY.	my knowledge and belief  DATE 9/16/02
Type or print name   W. Kent Whitmire   (This space for State use)	Telephone No. 505.677.3642
APPPROVED BY TITLE onditions of approval, if any	Ild Sep D JAN 14 2003

KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW
EL PATIO BUILDING
HT NORTH GUADALUPE
POST OFFICE BOX-2265

SANTA FE. NEW MEXICO 87504-2265 January 9, 2002

JASON KELLAHIN IRETIRED 1991

THEM MEXICO BOAPO OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW TELEPHONE (505) 982-4289 TELEPAX (605) 982-2047

Aceds
executive
summary
for current
tatus

#### Via Facsimile

W. THOMAS KELLAHIN

Stephen Ross, Esq.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87504

Re: NMOCD Case 12709

Application of Melrose Operating Company for approval of the expansion of its Artesia Unit Waterflood Project, Eddy County, New Mexico

Dear Mr. Ross:

I would appreciate your assistance concerning the status of the referenced case. Melrose Operating Company would like to know when it can expect the Division to issue an order in the referenced case which was presented at the hearing held on September 6, 2001, before Examiner Catanach. This case has been pending an order for more than 4 months.

By comparison, OXY USA WTP Limited Partnership presented a much more complicated, but similar, case to expand its North Hobbs Grayburg Unit Tertiary Recovery Project to Mr. Catanach on the same September 6, 2001 docket and received its order on October 22, 2001. See Case 12722, Order R-6199-B.

W. Thomas Kellahin

cc: Mr. David R. Catanach, Hearing Examiner Melrose Operating Company Attn: Ann E. Ritchie

•	The Market Control of the Control of	
ubmit 3 Copies to Appropriate District Office	State of New Mexico Energy, Minerals and Natural Resources Department	Form C 103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM S8240  LICT II Drawer DD, Artesia, NM 88210  DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088	WELL API NO.  30 015 01756  5. Indicate Type of Lease  STATE  FEE  6. State Oil& Gas Lease No.
( DO NOT USE THIS FORM FOR PRODIFFERENT RESE	ICES AND REPORTS (IN WELES)  OPOSALS TO DRILL OR TO SEEPEN OR PLUG BACK TO A:  RVOIR. USE "APPLICATION FOR PERMIT!  101) FOR SUCH PROPOSALS!	7. Lease Name or Unit Agreement Name
1. Type of Well: Oil Gas Well Gas Well	OTHER COLUMN TO STATE OF STATE	Artesia Unit
2. Name of Operator Melrose Ope	rating Company	8. Well No.
3. Address of Operator c/o P.O. Box 953, , Midland, T.	X, 79702	9. Pool name or Wildcat Artesia; QN-GR-SA
4. Well Location  Unit Letter H 1980	Feet From The North Line and 9	90' Feet From The East Line

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data							
NOTICE (	OF INTEN	TION TO:		SUBSEQUE	NT R	REPORT OF:	
PERFORM REMEDIAL WORK		PLUG AND ABANDON		REMEDIAL WORK	X	ALTERING CASING	
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING OPNS.		PLUG AND ABANDONM	ENT 🗌
POLE OR ALTER CASING				CASING TEST AND CEMENT JOB			
OTHER:				OTHER			

Range

10. Elevation (Show whether DF, RKB. RT, GR, etc.)

28E

**NMPM** 

Eddy

*\,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,* 

County

Township

17S

2-17-03: Moved in and rigged up. Tripped out of hole with pump & rods. Nipple down wellhead. Trip out of hole with tubing. Rigged up Computalog - ran cement bond log. Cleaned out hole to 2350', logged cement top @ 1700'. Rigged down loggers and ran in hole with tubing & rods & reconditioned pump. Hung well on - good pump action.

Cement bond log run in compliance to Administrative Order #WFX-768, New Mexico Oil Conservation Division. Artesia Unit Waterflood project.

APPROVED BY A CCOPTED for record Boll		MAR 0 4 2003
TYPE OR PRINT NAME Ann E. Ritchie		TELEPHONE NO. 915 684-6381
SIGNATURE ME TULSTU	Regulatory Agent	DATE 2-27-03
I hereby certify that the information above is true and complete to the best of my kn	owledge and belief.	

CONITIONS OF APPROVAL, IF ANY:

<sup>12.</sup> Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

### **COMPUTALOG**

ACOUSTIC CEMENT BOND
CD1
CCL

Wireline Services



COMPANY MELROSE OIL & GAS QUEEN WELL ARTESIA UNIT #10 OIL LINI FIELD ARTESIA QUEEN GRAYBURG MELROSE ARTESIA ARTESIA COUNTY\_EDDY \_\_ STATE\_NM LOCATION: OTHER SERVICES: COMPANY 360' FNL & 1952' FWL FIELI \_\_\_\_ TWP\_178 \_\_\_\_ RGE<u>28E</u> SEC 35 \_ ELEV.\_3684 ELEV .: K.B. 3691 PERM. DATUM Ground Level D.F. 3690 LOG MEASURED FROM K.B. FT. ABOVE PERMANENT DATUM DRILLING MEASURED FROM K.B. G.L. 3684 DATE 02/18/03 RUN NO. ONE DEPTH DRILLER 2214 DEPTH LOGGER 2199 BTM. LOG INTERVAL 1247 TOP LOG INTERVAL OPEN HOLE SIZE 7.875" TYPE FLUID WATER DENS. VISC. N/A N/A MAX. REC. TEMP. °F N/A EST. CEMENT TOP ROA TIME WELL READY TIME LOGGER ON BTM. SEE LOG EQUIP, NO. 4716 LOCATION HOBBS RECORDED BY M. Nasrallah/Skinner WITNESSED BY GARY NEWTON TUBING RECORD BOREHOLE RECORD FROM RUN NO. FROM TO SIZE WGT. TO BIT WT/FT GRADE TYPE JOINT TOP BOTTOM CASING RECORD SIZE SURFACE STRING PROT. STRING 1/2" PROD. STRING SURF. T.D. LINER

State of New Mexico	- a.m. 0/			
Submit 3 Copies to Appropriate Energy Minerals and Natural Resources Department	Form C 103 Revised 1-1-89			
DISTRICT I P.O. Box 1980, Hobb RNM S8240 RICT II P.O. Box 2088 Sala Fe, New Mexico 87504-2088	WELL API NO. 01505			
P.O. Box 1980, Hobb NM S8240  P.O. Box 2088  P.O. Box 2088  Santa Fe, New Mexico 87504-2088  District III  Distric	30 015 01742  5. Indicate Type of Lease			
DISTRICT III	STATE FEE			
DISTRICT III 1000 Rio Brazos Rd., Aziet NM 87410  SLINDRY NOTICES AND REPORTS ON WELLS	6. State Oil& Gas Lease No.			
( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name			
I. Type of Well:  Oil Gas  Well Well OTHER	Artesia Unit			
2. Name of Operator  Melrose Operating Company	8. Well No.			
3. Address of Operator	9. Pool name or Wildcat			
c/o P.O. Box 953, , Midland, TX, 79702	Artesia; QN-GR-SA			
Unit Letter N 330' Feet From The South Line and 175	0' Feet From The West Line			
Section 26 Township 17S Range 28E N	IMPM Eddy County			
10. Elevation (Show whether DF, RKB. RT, GR, etc.)	///////////////////////////////////////			
Check Appropriate Box to Indicate Nature of Notice, Re	eport, or Other Data			
NOTICE OF INTENTION TO: SUBS	SEQUENT REPORT OF:			
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING			
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING	OPNS. PLUG AND ABANDONMENT			
POLIOR ALTER CASING CASING TEST AND CEM	ENT JOB			
OTHER: OTHER				
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, inclu	rding estimated date of starting any proposed			
work) SEE RULE 1103.	trin out of halo with tubing Diagod up			
2-19-03: Moved in and rigged up. Trip out of hole with pump & rods. Nipple down wellhead, Computalog Wireline Services, tried to load hole, fluid level @ 2040'. Picked up RBP, trip in of hole and log - cement bond log. Top of cement @ 800'. Trip out of holewith RBP. Went backland well on. Tagged good pump action.	hole and set @ 1880' - loaded hole. Trip out			
Cement bond log run in compliance to Administrative Order #WFX-768, New Mexico Oil Co project.	nservation Division. Artesia Unit Waterflood			
I hereby certify that the information above is the and comprise to the best of my knowledge and belief.				
SIGNATURE / / / / / / / Regulatory Agent	DATE 2-27-03			
TYPE OR PRINT NAME Ann E. Ritchie	TELEPHONE NO. 915 684-6381			
ice for State Use)	ner & A geen			
APPROVED BY Accepted for second Blb TITLE	MAR 0 4 2063			
CONITIONS OF APPROVAL, IF ANY:				

### COMPUTALOG

ACOUSTIC CEMENT BOND

cb! CCL



. Wireline Services

COMPANY MELROSE OIL & GAS					
I					
THE COMPANY MEETINGS GIVE GIVE					
리 및 일 MELL ARTESIA UNIT # 3					
O A A A COUNTY EDDY					
A STATE N.M. STATE N.M.					
N LOCATION: OTHER SERVICES:					
FIELD ARTESIA QUEEN GRAYBURG  COUNTY EDDY STATE N.M.  LOCATION: 26-175-28E  SEC TWP RGE					
U					
PERM. DATUM Ground Level ELEV. ELEV.: K.B. LOG MEASURED FROM K.B. FT. ABOVE PERMANENT DATUM D.F. 3691					
DRILLING MEASURED FROM K.B. G.L. 3684					
DATE 19/02/03					
RUN NO. ONE					
DEPTH DRILLER 2155					
DEPTH LOGGER 1838.7					
BTM. LOG INTERVAL 1838.7					
TOP LOG INTERVAL 522.7					
OPEN HOLE SIZE 9 5/8"					
TYPE FLUID WATER					
DENS. VISC. N/A N/A					
MAX. REC. TEMP. °F N/A					
EST. CEMENT TOP					
TIME WELL READY 10:30 TIME LOGGER ON BTM. SEE LOG					
EQUIP. NO. 4716 LOCATION HOBBS					
RECORDED BY NASRALLAH / SKINNER					
WITNESSED BY GRAY / NEWTON					
BOREHOLE RECORD TUBING RECORD					
RUN NO. BIT FROM TO SIZE WGT. FROM TO					
CASING RECORD SIZE WT/FT GRADE TYPE JOINT TOP BOTTOM					
SURFACE STRING 9 5/8 SURF. 580					
PROT. STRING					
PROD. STRING 4 1/2 SURF. T.D.					
LINER 30KI 4 172					

+Submit 3 Copies to Appropriate District Office

CONITIONS OF APPROVAL, IF ANY:

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103

Revised 1-1-89

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240	OIL CONSERVA 1220 S. St.	WELL API NO. 30 015 01755			
DISTRICT II 1301 W. Grande Ave., Artesia, NM 88210	Santa Fe, New l	Mexico 87505	5. Indicate Type of Lease		
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			STATE FEI  6. State Oila Gas Lease No.	<u>Е Ц</u>	
( DO NOT USE THIS FORM FOR PRODIFFERENT RESE	ICES AND REPORTS OF COMMENTS O	EEPEN OR PLUG BACK TO A OR PERMIT"	7. Lease Name or Unit Agreement Name		
Oil Gas Well Well	OTHER		Artesia Unit	•	
2. Name of Operator Melrose Ope	rating Company		8. Well No. 14		
3. Address of Operator			9. Pool name or Wildcat		
c/o P.O. Box 953, , Midland, T	X, 79702		Artesia : Queen-Grayburg		
4. Well Location  Unit LetterG	Feet From The	Line and	Feet From The	_ Line	
Section 35	Township 17S	Range 28E	NMPM Eddy Co	unty	
///////////////////////////////////////		whether DF, RKB. RT, GR, etc.)	//////////////////////////////////////	waity	
NOTICE OF INT PERFORM REMEDIAL WORK  EMPORARILY ABANDON  PULL OR ALTER CASING  OTHER:	PLUG AND ABANDON CHANGE PLANS  Derations (Clearly state all pertinent perference NMOCD Order N	REMEDIAL WORK  COMMENCE DRILLING  CASING TEST AND CEI  OTHERCement bond  at details, and give pertinent dates, inc.  Number R 11720.	SEQUENT REPORT OF:  ALTERING CASING OPNS. PLUG AND ABANDONME MENT JOB	ENT	
I hereby certify that the information above is serve	7				
SIGNATURE AND F. Ritchie	saccomplete to the best of my knowledge	edge and belief.  TITLE Regulatory Agent	DATE 12-31-03	<del></del>	
TYPE OR PRINT NAME Ann E. Ritchie	soft complete to the best of my knowledge	Degulatory Agent	DATE 12-31-03 TELEPHONE NO. 432 684	<del></del>	
	son complete to the best of my knowledge	Degulatory Agent	DATE		

### **COMPUTALOG**

### ACOUSTIC CEMENT BOND GAMMA RAY CCL





UNIT GAS

LL ARTESIA

DEPTH DRILLER

DEPTH LOGGER

TYPE FLUID

EQUIP. NO.

RECORDED BY

LOCATION

COMPANY MELROSE

DATE RUN NO. QUEENS

LD ARTESIA

COMPANY MELROSE OIL & GAS WELL ARTESIA UNIT #14 FIELD ARTESIA QUEEN GRAUBURG COUNTY\_EDDY STATE N.M. LOCATION: OTHER SERVICES: TWP.17-S RGE28-E SEC.35 PERM. DATUM Ground Level ELEV. 3683' ELEV .: K.B. N/A \_\_ FT. ABOVE PERMANENT DATUM LOG MEASURED FROM GL D.F. N/A DRILLING MEASURED FROM KELLY BUSHING G.L. 3683' 02-21-03 ONE 2387' 2301 BTM. LOG INTERVAL 2301 TOP LOG INTERVAL 1200 OPEN HOLE SIZE 7.875" WATER N/A DENS. VISC. N/A MAX. REC. TEMP. N/A EST. CEMENT TOP 1620' TIME WELL READY 18:00 TIME LOGGER ON BTM. SEE LOG 4716 HOBBS, NM <u>M.MCGAHA</u>

WITNESSED		GA		MTON				
	<b>BOREHO</b>	LE RECO	RD			TU	BING RECOR	)
RUN NO.	BIT	FROM	T	0	SIZE	WGT.	FROM	TO
							1	
					-		i	
CASING REC	ORD	SIZE	WT/FT	GRADE	TYPE	JOINT	TOP	BOTTOM
SURFACE STI	RING 8	5/8"					SURF.	400'
PROT. STRI	NG						1	
PROD. STRI	NG 4	. 5					SURF.	T.D.
LINER								
			<b>.</b>		1			<u> </u>

# +Submit 3 Copies to Appropriate

### State of New Mexico Energy, Minerals and Natural Resources Department

Forr

m C 103 ised 1-1-89	94
------------------------	----

District Office				100,1000	
<u>DISTRICT</u> I P.O. Box 1980, Hobbs, NM S8240	OIL CONSERVA		WELL API NO.		$\dashv$
ISTRICT II	P.O. Box Santa Fe, New Mex	x 2088 xico 87504-2088	30 01	15 01756	
O. Drawer DD, Artesia, NM 88210	Santa PC, NEW IVIC	£21 <sup>28</sup> 293037	5. Indicate Type of Leas	e STATE⊠ FEE	] ]
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	Į,	xico 87504-2088 3162128293037	6. State Oil& Gas Lease		1
( DO NOT USE THIS FORM FOR PRO DIFFERENT RESER (FORM C-	CES AND REPORTS ON POSALS TO DRILL OR TO DEL VOIR. USE "APPLICATION POI 101) FOR SUCH PROPOSALS	PEN OR PLUG BACK TO A	7. Lease Name or Unit A	greement Name	
1. Type of Well: Oil Well Well Well	OTHER	OF STANFILLING	Δrte	sia Unit	
2. Name of Operator	ating Company <	19191816T	8. Well No.	15	$\dashv$
3. Address of Operator			9. Pool name or Wildcat		
c/o P.O. Box 953, , Midland, TX	(, 79702			QN-GR-SA	-
4. Well Location	-,	· · · · · · · · · · · · · · · · · · ·	1	<u></u>	$\dashv$
Unit Letter H 1980'	Feet From The No.	rth Line and 99	O' Feet From The	East Lin	ne
Section 35	Township 17S		NMPM Ed	dy County	
///////////////////////////////////////	10. Elevation (Show wh	nether DF, RKB. RT, GR, etc.)	///////////////////////////////////////		
11. Check A	Appropriate Box to Indic	ate Nature of Notice, R	eport, or Other Dat	a	1
NOTICE OF INT		•	SEQUENT REPO		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	X ALTE	RING CASING	
MPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS PLUG	AND ABANDONMENT	]
PULL OR ALTER CASING		CASING TEST AND CEN	MENT JOB		
OTHER:		OTHER_			
12. Describe Proposed or Completed Op- work) SEE RULE 1103.	erations (Clearly state all pertinent o	details, and give pertinent dates, incl	luding estimated date of start	ing any proposed	
2-17-03: Moved in and rigged up. Tr Computalog - ran cement bond log. C tubing & rods & reconditioned pump	Cleaned out hole to 2350', log	gged cement top @ 1700'. R			
Cement bond log run in compliance t project.	to Administrative Order #WI	FX-768, New Mexico Oil C	onservation Division.	Artesia Unit Waterfloo	d
I hereby certify that the information above is true	and complete to the best of my knowledge				
SIGNATURE (13	lohi	Regulatory Agent	D	2-27-03	
TYPE OR PRINT NAME Ann E. Ritchie			TE	ELEPHONE NO. 915 684-638	31
his space for State Use)				MAR 0 4 20	<u>On</u>
APPROVED BY Accepted for	Herend BAS	TITLE	D/	TIAR V 4 ZU	<b>5</b>
	• •		_		

CONITIONS OF APPROVAL, IF ANY:

+Submit 3 Copies to Appropriate

## State of New Mexico

Form C 103

Energy, Minerals and Natural Resources Department Revised 1-1-89 District Office OIL CONSERVATION DIVISION DISTRICT I WELL API NO. 1625 N. French Dr., Hobbs, NM S8240 1220 S. St. Francis Dr. 30 015 01732 DISTRICT II Santa Fe. New Mexico 87505 1301 W. Grande Ave., Artesia, NM 88210 5. Indicate Type of Lease FEE DISTRICT III 6. State Oila Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well  $\bowtie$ Well Artesia Unit 2. Name of Operator 8. Well No. Melrose Operating Company 28 3. Address of Operator 9. Pool name or Wildcat c/o P.O. Box 953, Midland, TX, 79702 Artesia: Queen-Grayburg 4. Well Location 990 South 330 Unit Letter Feet From The Line and Feet From The Line Section Township **17S** Range **NMPM** Eddy County 10. Elevation (Show whether DF, RKB. RT, GR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data **NOTICE OF INTENTION TO:** SUBSEQUENT REPORT OF: PLUG AND ABANDON PERFORM REMEDIAL WORK REMEDIAL WORK **ALTERING CASING CHANGE PLANS** EMPORARILY ABANDON COMMENCE DRILLING OPNS. PLUG AND ABANDONMEN **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER Cement bond log OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Ran Cement bond log on 2-21-03 - reference NMOCD Order Number R 11720. Waterflood expansion project. Top of cement @ 1634'. Log enclosed.

I hereby certify that the information above is true and complete to the best of my kno SIGNATURE	wledge and belief.  TITLE Regulatory Agent	DATE 12-31-03
TYPE OR PRINT NAME ANN E. Ritchie	Note that the second of the se	тецерноме но. 432 684-6381
(this space for State Use)		
APPROVED BY	TITLE	DATE

A  $\hat{A}$ 

### COMPUTALOG

Wireline Services

# ACOUSTI CEMENT BOND GAMMA RAY/CCL LOG



COMPANY MELROSE OIL & GAS ROSE & GAS WELL ARTESIA UNIT #28 MELROS OIL & ( IA UNIT FIELD\_ ARTESIA FIELD ARTESIA STATE NM COUNTY EDDY ARTESI, EDDY LOCATION: OTHER SERVICES: COMPANY 990' FSL & 330' FWL MAST TRAILER \_\_\_\_ TWP.17-S RGE28-E SEC.35 PERM. DATUM GROUND LEVEL ELEV. N/A
LOG MEASURED FROM N/A FT. ABOVE PERMANENT DATUM ELEV .: K.B. N/A D.F. N/A DRILLING MEASURED FROM KELLY BUSHING G.L.N/A DATE 10-11-03 RUN NO. ONE DEPTH DRILLER N/A DEPTH LOGGER 2154' BTM. LOG INTERVAL 2154' 1500 TOP LOG INTERVAL OPEN HOLE SIZE 7.875" TYPE FLUID WATER DENS. VISC. N/A N/A MAX. REC. TEMP. N/A EST. CEMENT TOP 1630' TIME WELL READY 09:00 TIME LOGGER ON BTM. SEE LOG EQUIP. NO. 4716 LOCATION HOBBS.NM RECORDED BY M.MCGAHA WITNESSED BY GARY NEWTON **BOREHOLE RECORD** TUBING RECORD RUN NO. BIT FROM TO SIZE WGT. FROM TO CASING RECORD SIZE WT/FT GRADE TYPE JOINT TOP BOTTOM SURFACE STRING 8.625" SURF N/A PROT. STRING PROD. STRING 5.5" SURF TD LINER

+Submit 3 Copies to Appropriate District Office

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

OIL CONSERVATION DIVISION **DISTRICT** I WELL API NO. 1625 N. French Dr., Hobbs, NM S8240 1220 S. St. Francis Dr. 30 015 01742 DISTRICT II Santa Fe, New Mexico 87505 5. Indicate Type of Lease 1301 W. Grande Ave., Artesia, NM 88210 STATE FEE DISTRICT III 6. State Oila Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well Artesia Unit Well OTHER 2. Name of Operator 8. Well No. **Melrose Operating Company** 3. Address of Operator 9. Pool name or Wildcat c/o P.O. Box 953, , Midland, TX, 79702 Artesia: Queen-Grayburg 4. Well Location South 1650 West Unit Letter Feet From The Feet From The Line Section 35 Township 17S Range 28E **NMPM** Eddy County 10. Elevation (Show whether DF, RKB. RT, GR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. **NOTICE OF INTENTION TO:** SUBSEQUENT REPORT OF: **PLUG AND ABANDON** PERFORM REMEDIAL WORK **REMEDIAL WORK** ALTERING CASING **CHANGE PLANS** EMPORARILY ABANDON COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER Cement bond log OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Ran Cement bond log on 2-21-03 - reference NMOCD Order Number R 11720. Waterflood expansion project. Top of cement @ '. Log enclosed. inplete to the best of my knowledge and belief. **Regulatory Agent** 12-31-03 TYPE OR PRINT NAME Ann E. Ritchie TELEPHONE NO. 432 684-6381

TITLE --

CONITIONS OF APPROVAL, IF ANY:

(this space for State Use)

APPROVED BY ....

REC. TEMP. 'F N/A CEMENT TOP 1733' HELL READY ON ARRIVA LOGGER ON STM. SEE LOG NO. 4824 HOBBS.NM HOBBS.NM J. FOREMA ESSED BY J.	DEPTH DRILLER 2484' DEPTH LOGGER 2480'  STM. LOG INTERVAL 2480' TOP LOG INTERVAL 1310' DPEN HOLE SIZE 8.625 TYPE FLUID WATER ORNS. 1 VISC. N/A N/A	COMPANY MELROSE OIL & GAS  FIELD  COUNTY_EDDY  COUNTY_EDDY  COUNTY_EDDY  COUNTY_EDDY  COUNTY_EDDY  STATE  THE COUNTY_EDDY  STATE  THE COUNTY_EDDY  COUNTY_EDDY  STATE  OTHI  COUNTY_EDDY  STATE  THE COUNTY_EDDY  COUNTY_EDDY  STATE  COUNTY_EDDY  STA	COMPUTALOG  ACQUSTIC CEMEN GAMMA RA CCL  CCL
el d			

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT. EXCEPT IN THE CASE OF GROSS OR WILLFULL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS. DAMAGES. OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

REMARKS:

CORRELATED O' TO COMPUTALOG COMPENSATED NEUTRON LOG DATED 9-22-03

SBT: 136 GR: 152 CCL: 152 : 6 PIN: 8 130 TOP CENT: 4157

THANK YOU FOR USING COMPUTALOG WIRELINE SERVICES!!!!!!!!!!!!!!!

### DEPTH DRIVE SURMARY

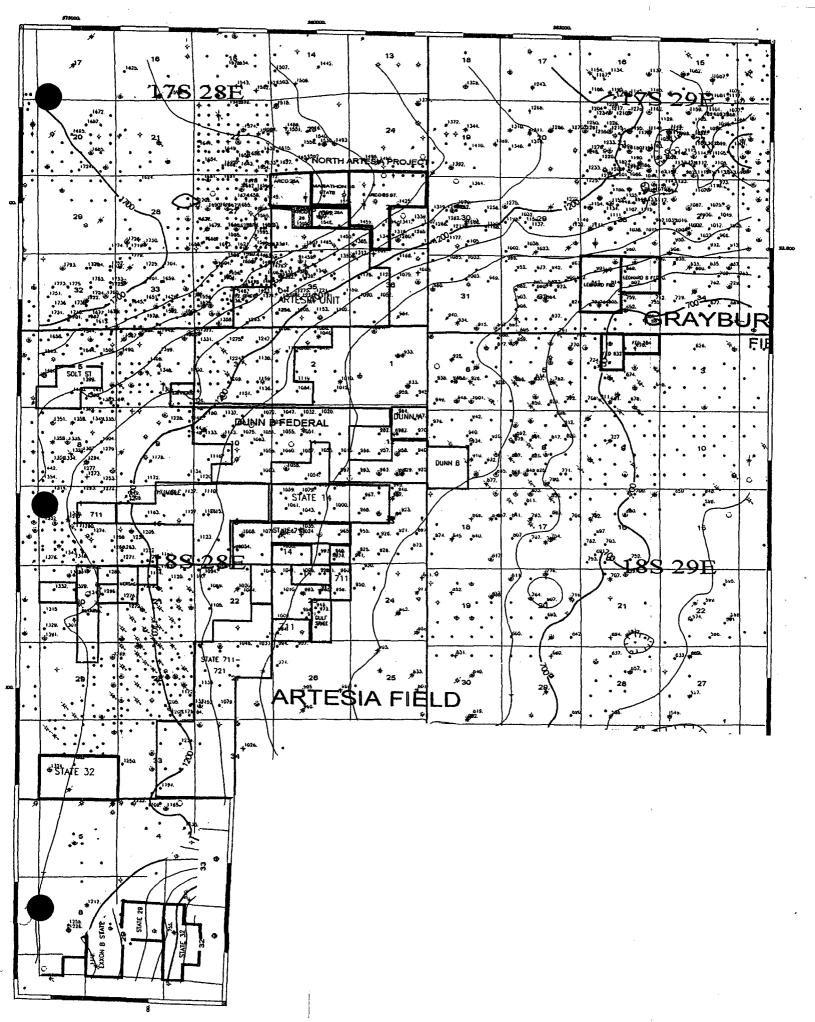
TRACE NAME

MININUM ##======== 0 -714

2215.2 1838.8

DEPTH

MAXIMUM EDUCATION 81 874 DEPTH ======= 1653.\$ 1805.7



# ARTESIA UNIT CAPITAL COSTS

TOTAL	13540 M\$
Miscellaneous	500 M\$
Injection Lines (41Conversion @ 9 M\$ ea)	370 M\$
Facilities	60 M\$
Convert 41 producers @ 30 M\$ ea	1250 M\$
Recomplete 72 zones in 44 wells @ 45 M\$ ea	3240 M\$
Drill 35 Producers @ 232 M\$ ea.	8120 M\$

# ARTESIA UNIT RECOMPLETION AND FLOOD DOWNSPACING INCREMENTAL ECONOMICS

Working Interest Revenue Interest	100 % 70 %
Gross Oil Net Oil	4069 MBO 2848 MBO
Gross Gas Net Gas	1406 MMCF 984 MMCF
Gross Capital	13540 M\$
Rate of Return	18.5 %
PWP @ 10% PWP @ 15%	10435 M\$ 3307 M\$
Payout	5.9 Years
Cost to Develop	4.60 \$/NEB

Return on Investment

4.2 \$/\$

### ARTESIA UNIT RESERVES TABLE

### Primary Operations (First Producer in 1/26)

Cumulative Recovery @ Flood Start (7/65)	1103 MBO
Remaining Reserves @ Flood Start	524 MBO
Ultimate Primary Reserves @ Flood Start	1627 MBO

Maximum # of Wells 57

Average Reserves per Well 29 MBO/Well

Acres 2280 acres
Average Reserves per Acre .7 MBO/acre

### **Current Operations**

Cumulative Recovery @ 6/01	2975 MBO
Remaining Reserves @ 6/01	180 MBO
Ultimate Current Reserves @ 6/01	3155 MBO

Current Cumulative Gas1332 MMCFCurrent Cumulative Water Production3779 MBWCurrent Cumulative Water Injection24464 MBW

Maximum # of Wells 64

Average Reserves per Well 49 MBO/Well

Acres 2280 acres

Average Reserves per Acre 1.38 MBO/acre

### **Proposed Operations**

Proposed Producing Wells	35 Wells
Proposed Injection Wells	0 Wells
Proposed Conversions to Injection	41 Wells

Capital Cost 13540 M\$

Incremental Reserves 4069 MBO

Total Ultimate Reserves 7224 MBO

### **Artesia Unit Incremental Reserves**

### Recompletion – 1,920 MBO

Recompletion reserves are calculated based upon several recompletions in the Artesia Unit. Incremental reserves were calculated for these recompletions and resulted in an overage recovery figure of 1MBO per foot of pay. The proposed recompletion intervals amount to 1,200°. A 50% risk-factor was applied, which resulted in a 600 MBO recovery figure. A waterflood recovery factor of 2.2 was then applied to the 600 MBO for a total expected reserve figure of 1,920 MBO.

### Collapsing the Flood Pattern – 2,255 MBO

Several offset waterfloods developed on various well spacings were analyzed for recoveries per acre and per well. Graphs were constructed showing the increased recovery verses tighter spacing. Based on this data, it is reasonable to conclude that the Artesia Unit will add 2,255 MBO in incremental waterflood reserves drilling additional wells and collapsing the spacing from 36 acres to 20 acres per well.

### **ARTESIA UNIT OOIP COMPARISON**

### Original Oil in Place by Zone:

Loco Hills

7256 MBO

Metex

13191 MBO

**Premier** 

16859 MBO

Lovington

9487 MBO

TOTAL

46793 MBO

**Ultimate Primary Reserves= 1627 MBO** 

3.5 % of OOIP

**Current Operations Ultimate Reserves= 3155 MBO** 

**6.7 % of OOIP** 

**Proposed Ultimate Reserves= 7224 MBO** 

15.4 % of OOIP

Well and Location	1. 2. 2.	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole	CMT YLD	FT/FT3	Meas. TOC	2001@	75%	%05 Ø	Date Drilled	API Number
AC the D D Oc of the Part of															
1-17-5 K-28-E Section 23														6703/12/17	700151001
Malana Ganna	ē	Inactive	1781-2258	8 5/8	\$	75	10	1.32	7.1565		surface	surface	surface	0/1//1/00	20-013-100
Artesia Unit # 6			<u> </u>	4 1/2	1677	175	<b>∞</b>	1.32	4.1891		1323	1363	1001	6	
330 FSL & 330 FWL (M)															
			Ц	97.1.0	130	37.5	9	2	7.1565	Circ.	surface	surface	surface	8/20/1960	30-015-01537
ВР Атосо	ੋ	Inactive	6300-6316	8 5/8	/38	\$000	7 7/8	73.8.188	\$ 7695			1550			
Empire Abo Unit D 42					0363	320	Л.					55% Eff.			
660 FSL & 1980 FWL (N)				*5 1/2 cmf'd w/	w/ 1/0 sx H Y S & 150 sx 4 % Incor	O SX 4 % INCO.									
T-17-S R-28-E Section 20															01277 210 05
	ē	Active	7445.2690	8 5/8	530	375	12 1/4	1.32	2.4219		surface	surface	surface	11/3/1993	30-013-7/019
Marbob	3	JAPAN C	200	5 1/2	3103	800	7 7/8	1.32	5.7695		surface	surface	'n		
1650 FSL & 1650 FWL (K)															
									1			9,00	a. injure	9661/57/9	30-015-28958
Marbob	Ö	Active	2334-2821	8 5/8	615	375	12 1/4	1.32	2.4219		Surface	Surince	300100	000000000000000000000000000000000000000	
Arco 26 A State #2				2/1 \$	3049	550	7.7/8	1.32	5./695		Suriace	Sur lace			
2264 FNL & 330 FWL (E)										T					
						3,	77.	- 3	24210		surface	surface	surface	1/11/1998	30-015-29905
Marbob	Oil	Active	2637-3220	8 5/8	530	900	17.1/4	1.32	1 3881		surface	surface	783		
Arco 26 A State #11				4 1/2	3390	98	<u> </u>	7.77	1.300.1						
2280 FNL & 1650 FWL (F)															
			2020 2020	0/3 0	133	300	12.1/4	1.32	2.4219		surface	surface	surface	3/26/1998	30-015-29997
Melrose Energy	3	Active	260-250	417	3000	902	7.7/8	1.32	4.3881		surface	surface	973		
Artesia Unit #73															
600 FSL & 990 FWL (L)															10000
	ē	Active	6152-6172	8 5/8	720	350	01	1.32	7.1565		surface	surface	surface	7/22/1960	30-013-01334
Br Amoco	3			•	6326	320*	7 7/8	7.3 & 1.88	5.7695			1493			
1650 FST & 1980 FEL (1)				וסו	w/ 170 sx HYS & 150	0 sx 4% Incor						32% EII.			
					S.F.	77.	5	:	7 1565	Cire	surface		surface	1/8/1960	30-015-01553
ВР Атосо	ö	P&A	6198-6224	8 3/8	6310	340*	7 7/8	7.3 & 1.88	5.7695			1014			
Empire Abo Unit C #38				*5 1/2 cmt'd w/	2 cmt'd w/ 190 sx HYS & 150	×	1.					55% Eff.			T
INDU FOL OF 1980 FWI. (N.)														0701/16/0	30 015 01557
ND America	ē	Active	6060-6080	8 5/8	738	350	10	1.32	7.1565	Cire.	surface	1000	surface	0061/17/9	30-013-01337
Errorice Unit #17				5112	6226	320*	7 7/8	7.3 & 1.88	5.7695			1393			
1650 FSL & 990 FWL (L)				*5 1/2 cmt'd w/	2 cmt'd w/ 170 sx HYS & 150 sx 4% Incor	0 sx 4% Inco						33% 511.			
							9,2	. 33	4 100K		187	291	395	1/16/1961	30-015-01564
Melrose Energy	Öİ	Inactive	2072-2082	7	500	c se	2 3/0	2/2	0 7471		491	892	1294		
Artesia Unit #1				4 1/2	8607	2	1/10	7:37							
1650 FSL & 460 FWL (L)															
	į	Y Single	K080-K100	8/5/8	739	300	2	1.32	7.1565	Circ.	surface		surface	6/3/1960	30-013-01331
BP Amoco	3	Acuve	20000	\$10	6218	275*	7 7/8	7.3 & 1.88	5.7695	Circ.	After Squeeze job	ze job		Circulated w	Circulated w/ squeeze Job
Empire Abo Unit D #3/				*5 1/2 cmt'd w/	2 cmt'd w/ 125 sx HYS & 150	0 sx 4 % Incor	1.								
330 FSL & 820 FWL (M)															

Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of	Hole	CMT YLD	FT/FT3	Meas.	Ø 100%	75%	% 05 Ø	Date Drilled	API Number
						Care						٦	208	12/15/1960	30-015-01563
Meirose Energy	IIO	Inactive	2110-2116	8 2/8	295	7.5	2	1.32	3		surrace		3 3		
Artesia [Init #7				4 1/2	2154	275	8	1.32	4.1891		83	1014	\$		
330 FSL & 330 FWL (M)															
									,,,,,,	ļ	,		orthface	0961/81/9	30-015-01550
ВР Атосо	iö	Inactive	6158-6170	8 5/8	739	300	2	1.32	2027	:    -  -	SULINCE		2000		
Frmire Abo Unit D#38				5 1/2	6435	312*	7 7/8	7.3 & 1.88	2/03/	880					
330 FSL & 2310 FWL (N)			4	*5 1/2 cmt'd w/ 1	cmt'd w/ 162 sx HYS & 150 sx 4% Incor	) sx 4% Incor				Sas. IO					
							_1				8	707	107	1/6/1/6/1	30-015-01565
Melrose Energy	Ö	Active	2136-2142	1	609	75	9 5/8	1.32	4.150		2 5	500	1351	200	
Arteeis Init #3				4 1/2	2155	125	6 1/4	1.32	9.7421		Ř	Ŷ	1661		
110 EST & 1750 FWL (N)															
1000														777 /1060	20.015.01552
DD Among	ē	Active	6208-6222	8 5/8	732	300	10	1.32	7.1565	Cire.	surface		surrace	0041/1//	2000-0000
Dr Amoco				51/2	6332	320*	8/2 2	7.3 & 1.88	5.7695	1535					
1310 EET & 1080 EET (O)				*5 1/2 cmt'd w/ 1	omt'd w/ 170 sx HYS & 150	3 sx 4% Incor				cas. TO					
330131 @ 1300117														1201/00/1	30 015 01566
	ē	1	2162.2177	_	909	7.5	8/5/6	1.32	4.1996		<u>8</u>	288	392	1/20/1901	00010-010-00
Merrose circigy	3	2011	2017 2017	4 1/2	2196	125	6 1/4	1.32	9.7421		889	8	1392		
Arresia Unit #4															
2310 FEL & 330 FSL (U)															30 016 01666
		1	0163 0013	8/5 8	714	375	2	1.32	7.1565	Circ.	surface	surface	surface	1/25/1960	30-013-01333
Br Amoco	3	Acuve	0139-0413	2/15	6330	320*	7.7/8	7.3 & 1.88	5.7695			1497			
Empire Abo Unit #40				1 / 1.0 6/8 3#	051 & SVH 20 071 / 11 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1 8	J.					55% Eff.			
660 FSL & 660 FEL (P)					OT TO STILL YE AV	200									
			3010 1010	7	9	75	9 5/8	1.32	4.1996		181	288	392	9/5/1961	30-015-01567
Melrose Energy	5	Inactive	0617-1617	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3778	75	61/4	1.32	9.7421		1264	1505	1746		
Artesia Unit #5				7/17	200										
990 FEL & 330 FSL (P)															
					,	9	7	133	1.0413	Circ.	16		23	1/3/1984	30-015-25013
ВР Атосо	Gas	Active	10,011-018	2	OS.	2 3	5		430	زيد	enrface		surface		
State CC #1				13 3/8	S	3	7,1	1:32	7 1666		a lings of		surface		
990 FEL & 2235 FWL (N)				8 5/8	2600	0001	2,5	1.32	2027.	134. DV	entrace		4274		
				5 1/2	10900	1/40	9	1.32	2:/02	5767					
				9,50	213	55	٩	62	7.1565		surface	surface		5/14/2000	30-015-30976
Marbob Energy	ö	Active	3820-4120	6 3/0	4240	1250	77/8	1.32	5.7695		surface	surface			
.D. State #3				3.11.6	Que la companya de la										
765 FSL & 1650 FEL (U)															20000
			3571 4001	8 5/8	503	450	2	1.32	7.1565		surface	surface		2/10/2001	30-015-31422
Marboo Energy	3	V. T.	100	2113	4212	1100	7 7/8	1.32	5.7695		surface	surface			
U State #3															
990 FSL & 990 FWL (M)															
							SFR AT	SEE ATTACHED PLUGGING DIAGRAMS	UGGING	DIAGRA	MS			P&A 12/20/8	30-015-01559
BP Amoco	P&A														
Empire Abo Unit B #39															
2310 FSL & 1980 FEL (J)															
	$\int$														

			-											,	
Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole Size	CMT YLD	FT/FT3	Meas. TOC	Ø 100%	75%	20%	Date Drilled	API Number
												-		0000	20 015 30773
T-17-5 K-28-E Section 2/	[		3620 3864	8 5/8	530	350	2	1.32	7.1565		surface	surface	surface	1/13/1999	30-013-30773
Marbob Energy	3	Active	丰	51/2	4163	056	7.7/8	1.32	5.7695		surface	surface	246		
990 FSL & 1669 FEL (O)															
								,	0,0,0	į	9003411		anriace	5/20/1981	30-015-23742
Marbob Energy	īō	Active	2050-2060	8 5/8	435	275	12 1/4	25.1	2.4219	i.	Surface		Surface		
N.G. Phillips #28				4172	2500	22	0 1/4	1.32	7.7421	CIIIC:	A I I I				
2260 FNL & 330 FEL (H)															
				9,5 6	010	43	٤	1.32	7.1565		surface	surface	surface	8/27/1960	30-015-01583
ВР Атосо	ö	Active	6040-6193	8 5/8	0/0	3 5	7 7/8	132	5 7695	Circ.	surface		3025		
Empire Abo Unit #36				2/1/2	7070	86	2,,,								
1628 FSL & 660 FEL (I)															
			4	0,7,0	055	5	9	1.32	7.1565		87	205	323	1/2/1961	30-015-01572
Marbob Energy	ö	Inactive	2020-2004	6 3/0	0000	365	7.7/8	1.32	5.7695		surface	surface	969		
N.G. Phillips #4		MIW MI		211/2	7000										
1650 FSL & 330 FEL (I)															25.0
			3000 3100	8 5/8	475	275	2	1.32	7.1565		surface	surface	surface	5/20/1981	30-013-23/30
Marbob Energy	3	Acuve	4	417	2550	525	61/4	1.32	9.7421		surface	surface	surface		
N.G. Philips #21															
2264 FSL & 978 FEL (I)															20000
	-		AATO STAK	8 5/8	517	356	2	1.32	7.1565		surface	surface	surface	8/2/1983	30-015-24552
Marbob Energy	3	Acuve	7470-710	2/15	3000	850	7 7/8	1.32	5.7695		surface	surface	surface		
N.G. Philips #33				7											
1650 FSL & 455 FEL (I)												į		1301/26/2	30 015 01 584
DD Among	ijĠ	Active	0809-0909	8 5/8	1002	200	=	1.32	3.9321	,	surface	surface	surrace 724	1041/17/0	20-010-00
Emire Abo Unit #35				4 1/2	6619	850	6 1/4	1.32	9.7421	§ €	surface		5		
1650 FST & 1750 FFT (1)															
(2)														1961/51/2	30-015-01573
Marhob Factor	ijÖ	P&A	2024-2034	8 5/8	999	set	9	1.32	7.1565		,	a linguage	808		
N C. Phillips #5				\$ 1/2	2057	381	7.7/8	1.32	5,1093		Surface	Sm Iacc	3		
1650 FSL & 1650 FEL (J)															
														5/6/1961	30-015-01591
Marbob Energy	Oil	Active	2040-2050				7 7/0	1.33	\$ 7605	J.	surface	surface	surface		
Walker State #2				211/2	20/0	Š	0//	7							
330 FSL & 1650 FEL (O)					,										
	Ö	Activo	2010-2040	8 5/8	579	200	92	1.32	7.1565	70	surface		surface	2/18/1977	30-015-22016
Marbob Energy	3	2	1	4 1/2	2094	575	7 7/8	1.32	4.3881	520	surface		4.79		
900 FSL & 2287 FEL (O)															
										į			annegation	11/1/1983	30-015-24611
Marbob Energy	Oil	Active	2434-2738	8 5/8	246	350	10	1.32	2 7605		surface		143		
Samedan State #1				51/2	2999	8	<b>%</b>	1.32	3.1023						
330 FSL & 2287 FEL (O)															
			30.00	0,20	733	88	12	1.32	7,1565	Cjre.	surface		surface	0961/1//	30-015-01590
ВР Атосо	70	P&A	6114-6138	8 2/8	757	3 5	4,1/4	1.32	9.7421	1700	surface		453		
Empire Abo Unit D#35				4 1/2	0540										
330 FSL & 1980 FEL (O)															

						. :									
Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole	CMT YLD	FT/FT3	Meas. TOC	2001 Ø	75%	%0S Ø	Date Drilled	API Number
* 44	į	1	4180,6190	8/58	751	350	٩	1.32	7.1565	Circ.	surface		surface	0961/81/L	30-015-01582
Br Amoco	3	ACIIVE	0100-0130	\$ 10	1229	850	7 7/8	1.32	5.7695	150.	surface		3034		
330 FSL & 660 FEL (P)															
										ļ	ļ		والمؤورة	6/6/1984	30-015-24848
Marbob Energy	Oil	Active	2155-2774	8 5/8	506	350	2	1.32	1.1303	CIIC	Surince		Ş Ş		
N.G. Phillips #37				5 1/2	2980	99	2/2	1:32	2,/093	CIE:	Surince				
1165 FSL & 978 FEL (P)					- I										
									3 0321		979	ourface	surface	3/23/1979	30-015-22803
BP Amoco	Oil	Active	6300-6310	8 5/8	800	450	=	1.32	1706.5		SUITACE	Suriace	23.5		
Empire Abo Unit #361				5 1/2	6414	1600	7 7/8	1.32	2,703		SULIBOO	SULINCE	;		
136 FSL & 800 FEL (P)															
										1	١		onefore	6/21/1983	30-015-24477
Marbob Energy	Ö	Active	2046-2696	8 5/8	547	350	2	1.32	200	j L	Surface		30000		
N.G. Phillips #32				5 1/2	3749	1050	7,78	1.32	3	CIE:	surface		Sellance Sellance		
440 FSL & 979 FEL (P)															
										,			- California	1/17/1084	30-015-24776
Marbob Energy	IIO	Active	2443-2845	8 5/8	200	250	2	1.32	7.1563	SET.	surrace		777		
N.G. Phillips #36				5112	3012	009	7.7/8	1.32	5.7695	Cig.	surface		/2/		
335 FSL & 330 FEL (P)															
													3	0301/2/01	20.015.01571
Marhoh Energy	ਠੋ	P&A	2082-2092	8 5/8	500	90	01	1.32	7.1565		28	\$	\$ 5	10///1500	30-010-010-0
N.G. Phillips #3				5 1/2	2122	135	7 7/8	1.32	5.7695		- 10g	1321	1909		
330 FSL & 330 FEL (P)															
				-							ļ			00000001	30.015-31173
Dreyfus	Gas	Active	9949-	13 3/8	435	425	1	1.32	1.6645	Circ.	surface			2007701	
Geronimo "27" State #1			10201	9 5/8	2649	850	12 1/4	1.32	3.1917	Circ.	surface	3000			
700 FSI & 1850 FEL (O)				\$ 1/2	10659	1375	7 7/8	1.32	5.7695		ž	C097			
T-17-S, R-28-E, Section 34															
													a de la constante de la consta	7/18/1960	30-015-01720
ВР Атосо	110	Inactive	6258-6288	8 5/8	887	350	=	1.32	3.9321	350	Surrace	SULINCE	3411ave	2011	
Empire Abo Unit E #36				4 1/2	6345	750	77/8	1.32	4.3881	<u>Ş</u>	7M7				
966 FNL & 660 FEL (A)															
			0000	9,3	02.3	2	٤	1.33	7 1565		3	234	342	6/24/1961	30-015-01700
Marbob Energy	ö	Active	7360-7300	8 2/8	378	8 5	77,8	200	2 7695		1392	1677	1963		
				7,17	1007	25									
505 FNL & 660 FEL (A)															
¥ 444	120	I and the same	7160.6718	8/5/8	750	300	E	1.32	3.9321	Surf.	surface		surface	5/13/1978	30-015-22487
Dr Amoco	3	240	010	\$10	6919	1020	7.7/8	1.32	5.7695	.042	surface		2285		
Empire Abo Unit E #301										V @ 300					
620 FNL & 1200 FEL (A)															
Modest Constitution	ä	Active	2465-2900	8 5/8	498	350	2	1.32	7.1565	Circ.	surface		surface	12/3/1985	30-015-254/1
Marcoo Energy Corp	3		2007	\$10	3015	1150	7 7/8	1.32	5.7695	Circ.	surface		surface		
Amoco State A #5															
SO FILE 330 FEL (A)	I														
				T										ŀ	

				Cooping Stree	Penth	No. of	Hole	CMT YLD	FT/FT3	Meas.	%001 <b>@</b>	75%	% OS Ø	Date	API Number
Well and Location	- X		rerioramons			Sacks	Size			3	ļ		ļ	0701/6/2	30.015.77804
RP Amoco	ã	Inscrive	6260-6270	8 5/8	800	450	11	1.32	3.9321	Cir.	surface		surrace	3/3/13/0	20077-570-05
Fernies Abo Unit #363				5112	6350	1650	7 7/8	1.32	5.7695	Circ.	surface		è		
650 FNI. & 120 FEL. (A)										V @ 302					
													200	119/1086	30-015-25508
Marbob Energy Corp	Oil	Active	2319-2820	8 5/8	505	350	=	1.32	3.9521	2 2	Surrace		Surface	2007771	
Amoco State A #2				\$ 1/2	3082	0001	<b>%</b>	1.32	3.7093		Surrance		and the second		
443 FNL & 978 FEL (A)															
	T		030000	8/3 8	750	059	E	1.32	3.9321	Circ.	surface		surface	4/5/1979	30-015-22817
BP Amoco	5	Acuve	0520-0540	0/20	6256	750	7 7/8	1.32	5.7695	Cire.	<del>\$</del>		3400		
Empire Abo State #302										V @381					
200 110 1200 1200 1000											1			0301/0/8	30-015-01716
BP Amoco	ΠÖ	Active	6158-6192	8 5/8	770	450	2	1.32	1.1365	2 S	surrace		30100	00/17/0	
Empire Abo Unit E #35				\$ 1/2	6256	820	77/8	1.32	060/0	1450	Surince				
169 FNL & 1967 FEL (B)															
	1	,	2440 2701	8 5/9	470	350	12 1/4	1.32	2.4219	Circ.	surface		surface	10/14/1986	30-015-25636
Marbob Energy	3	Venne	76/7-04-7	\$ 1/2	3042	1100	7 7/8	1.32	5.7695	Circ.	surface		surface		
355 FNL & 1910 FEL (B)									T						
							-	,	7 1865		15	040	358	2/2/1962	30-015-01701
Marbob Energy	Oil	P&A	2064-2074	8 5/8	\$2	8	10	25.1	2007.		1414	1605	1795		
Amoco State C #1				5 1/2	2176	3	9//	7.5.	3.70%						
144 FNL & 1650 FEL (B)	T													Y	
1. 1. 1. E	ë	Active	7405-7867	8 5/8	470	350	2	1.32	7.1565	Circ.	surface		surface	4//24/86	30-015-25601
Maroon Energy	1	3ATIO	1007-0027	5 1/2	3092	1100	7 7/8	1.32	5.7695	Circ.	surface		surface		
2260 FNL & 1850 FEL (G)															
							١	\$	7 1666		Ę	100	310	12/17/1974	30-015-01707
Fulton Co.	Oil	Active	836-854	8 5/8	555	2 2	7 7/8	75.	\$ 7695		203	1245	1387		
Pan American #1	T			\$ 1/2	16/3										
2310 FNL & 1650 FEL (G)	T														
DD America	ē	Inactive	6228-6276	8 5/8	1000	650	11	1.32	3.9321	Circ.	surface		surface	6/30/1960	30-015-01/15
Emire Abo Unit F #35 (C)	3			4 1/2	6336	850	7 7/8	1.32	4.3881	1350	£		38/4		
1939 FNL & 1966 FEL	П														
				9,50	1017	95	]=	133	3 9321	Cjrc	surface		surface	9/24/1975	30-015-21537
BP Amoco	5	Inactive	C100-C170	5170	6315	1246	7.7/8	1.32	5.7695	Circ.	surface		1570		
2350 FNI & 1650 FFI (G)	T									V @399					
CO THE TOO I TOO											1				
				1	135	93	9	1.33	7 1565	Surf	surface		surface	11/8/1978	30-015-22628
ВР Атосо	ö	Inactive	6202-6222	82/8	(33	3631	7.7/8	1 32	5 7695	Cig	surface		95		
Empire Abo Unit F #352				2117	070	7701		7		V @ 300					
1330 FNL & 1980 FEL (G)	T									9					
	ē	Action	1019-5769	8 5/8	775	450	2	1.32	7.1565	Circ.	surface		surface	7/17/1960	30-015-01719
BP Amoco	<b>T</b>	Victive	2000	4 1/2	6339	950	61/4	1.32	9.7421	975	surface		231		
2263 FNI & 660 FEL (H)	T										1				
(m) 111 a 000 1 5 m															

Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole	CMT YLD	FT/FT3	Mess. TOC	%001 @	75%	208 @	Date Drilled	API Number
			2122 22.13	0/3/0	97	ş	9	1.32	7.1565		surface	96	214	1961/1/6	30-015-01725
Larue, C.E. & Muncy B.M.	Ö	Inactive	21/2-2312	8 3/8	2128	2 2	7.78	1.32	5.7695		1757	1900	2042		
Moore State #1															
										,			75%	113/1077	30-015-21963
BP Amoco	Ö	Inactive	6233-6245	8 5/8	756	275	=	1.32	3.9321	i Serie	Suring		2 2		
Empire Abo Unit F#361				5.172	6350	1550	8//	75:1	2,/00/2	V @434	Smilance				
1765 FNL & 1270 FEL (H)															
	1		2476 2063	8/5 8	\$05	350	12.1/4	1.32	2.4219	Circ.	505		505	12/31/1985	30-015-25470
Marbob Energy	3	Active	2472-5235	\$ 1/2	364	0011	7.7/8	1.32	5.7695	Circ.	surface		surface		
2260 FNI & 330 FEI. (H)															
770 771 777 771 777										,			2112	11/23/1978	30-015-22630
BP Amoco	ē	Inactive	6179-6203	8 5/8	750	9 <u>5</u>	=	1.32	3.9321	Serie Serie	surface		ARI ARI	11/20/12/10	
Empire Abo Unit F #362				5 1/2	6478	1575	200	75.7	5./0%	V @ 332	Suriace				
1850 FNL & 350 FEL (H)										2					
	1		0113 0113	8/5/8	750	450	E	1.32	3.9321	Circ.	surface		surface	5/2/1979	30-015-22820
BP Amoco	3	Inacuve	0570-0770	213	6348	1600	7.7/8	1.32	5.7695	Circ.	surface		255		
Carpire Abo Unit F #303										V @ 298					
CON FINE & LOSO FEEL (II)	T												ļ	01011211	20 015 22027
DD America	ē	Active	6224-6234	8 5/8	744	450	=	1.32	3.9321	Circ.	surface		surface	//0/19/9	30-013-77371
Frantis Abo Unit #364				5172	6350	480	7 7/8	1.32	5.7695	Circ	562		4377		
1550 FNL & 750 FEL (H)										V @ 398					
								55.	7077		90	98	251	12/12/1956	30-015-22940
Melrose Energy	O.	Inactive	2014-2294	7	280	C 5	0 3/4	1.32	1,077		305	873	1356		
Artesia Unit # 24				4 1//2	0767	3		7							
1980 FSL & 660 FEL (I)	T				T										
			0700 0000	8/2 8	800	450	Ξ	1.32	3.9321	Cire.	surface		surface	3/27/1979	30-015-22823
BP Amoco	3	Inacuve	0470-0070	2/15	6350	1715	7 7/8	1.32	5.7695	Circ.	surface		surface		
TAND EST & 300 FFT (1)										V @450	1				
										1	55		010	0901/2/5	30-015-01706
ВР Апосо	ē	P&A	6196-6216	8 5/8	839	250	SEE AT	SEE ATTACHED PLUGGING DIAGKA	CCCINC	DIAGKA	2 3		2464	200	
Empire Abo Unit G #36				51/2	6464	654 S					\$				
2310 FSL & 990 FEL (I)															
-	Ī	Action	1068.7740	8 5/8	540	75	2	1.32	7.1565		surface	6	186	12/6/1956	30-015-01723
Melrose Energy	3		2007	4112	2334	9	<b>∞</b>	1.32	4.1891		22	675	1228		
1980 FST & 1880 FET (J)															
										į			a de la constante de la consta	3501/9/21	30-015-22123
BP Amoco	ē	Inactive	6190-6200	8 5/8	009	375	=	1.32	3.9321	2 S	surrace		3miacc	200	
Empire Abo Unit G #351				4 1/2	2334	\$	7.7/8	1.32	4.3881	3					
1850 FSI & 1650 FEL (J)				•					T		1				
				073.0	750	Ş	=	1.33	3 9321	Cire.	surface		surface	5/25/1979	30-015-22846
	ē	Inactive	6214-6234	6 3/0	1389	8	7.7/8	1.32	5.7695	Circ.	surface		surface		
Empire Abo Unit G #352	T			7115	1000					V @301					
2200 FSL & 1450 FEL (J)															
T			·												

Type   Status   Perforations   Casting Size   Depth   Sacks		e CMT YLD	FT/FT3	2c. @ 100%	75%	%0%	Date	API Number
Oil Inactive   6218-6238   8.5/8   752   400		1	ł			1		
Oil Inactive         6218-6238         8 3/8         6350         1555           Oil Inactive         2358-2413         8 5/8         537         50           Oil Active         2372-2413         8 5/8         517         2331         100           Oil Active         2317-2705         13 3/8         513         525         60           P&A         2274-2816         8 5/8         303         300         300           PA         Active         2274-2816         8 5/8         303         300           PA         Active         2325-2399         8 5/8         303         300           PA         Active         2325-2399         8 5/8         702         50           PA         Active         1875-2238         10         313         Unik.           Oil Active         1875-2238         10         313         429         350           Oil Active <t< th=""><th></th><th>7</th><th>3,9321 Circ.</th><th>rc. surface</th><th></th><th>surface</th><th>61/1/19</th><th>30-015-22865</th></t<>		7	3,9321 Circ.	rc. surface		surface	61/1/19	30-015-22865
Oil         Inactive         2358-2413         8 5/8         537         50           Oil         Active         2417-2705         13 3/8         51/2         2331         100           Oil         Active         2417-2705         13 3/8         51/2         2331         100           Oil         Active         2274-2816         8 5/8         303         300         300           P&A         Active         2274-2816         8 5/8         303         300         300           PA         Active         2325-2399         8 5/8         303         300         300           PA         Active         2325-2399         8 5/8         305         350         350           PA         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         4487         900           Coll         Active         10461-         13 3/8         443         443         430		1	╄	╁		429		
Oil         Inactive         2358-2413         8 5/8         537         50           Oil         Active         2417-2705         13 1/8         51/2         2331         100           Oil         Active         2417-2705         13 1/8         513         525           Inj         Active         2274-2816         8 5/8         303         300           P&A         2274-2816         8 5/8         303         300           PA         4 1/2         3125         700           PA         4 1/7         3125         700           PA         5 1/2         2325         60           PA         8 5/8         303         350           PA         8 5/8         303         300           Oil         Active         2375-239         8 5/8         303         300           PA         8 5/8         36         350         350         350         350           Oil         Active         1875-2238         10         313         Unix.           Oil         Active         1875-2238         10         443         443         443           Oil         Active         10461-		1	┿┈	2				
Oil         Inactive         2358-2413         8 5/8         537         50           Oil         Active         2417-2705         13 3/8         513         525           Oil         Active         2417-2705         13 3/8         513         525           Oil         Active         2274-2816         8 5/8         303         300           P&A         Active         2325-3399         8 5/8         360         50           P&A         Active         3125-3399         8 5/8         360         50           PA         Active         3125-3399         8 5/8         702         50           PA         Active         3175-238         10         313         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Active         1045-         1045-         13 3/8         443         443           A			М	$\Box$		15	22011012	30.015.01.709
Oil         Active         3417-2705         13 3/8         513         525           Oil         Active         2417-2705         13 3/8         513         525           Oil         Active         2274-2816         8 5/8         303         300           P&A         2274-2816         8 5/8         303         300           PAA         4 1/2         3125         700           PAA         8 5/8         303         300           PAA         8 5/8         303         300           PAA         8 5/8         303         300           PAA         8 5/8         8 5/8         300           PAA         8 5/8         8 5/8         350           PAA         8 5/8         702         50           PAA         8 5/8         702         50           PAA         8 1/4         518         Unik.           Oil         Active         10452-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         443         430           Active         10461-         13 3/8         443         430           Active         104		1.32	3.9321	277	342	104	0061/7/0	30-01-0-01
Oil         Active         2417-2705         13.3/8         513         525           Oil         Active         2274-2816         8 5/8         2625         1200           Oil         Active         2274-2816         8 5/8         303         300           P&A         Sig         3125         700           P&A         Sig         51/2         2325         60           PA         Sig         51/2         2325         60           PA         Sig         8 5/8         50         50           PA         Sig         8 5/8         8 5/8         350           PA         Sig         8 5/8         50         50           PA         Sig         8 5/8         350         200           PA         Sig         8 5/8         30         30           PA         Sig         702         50           PA         Sig         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         10461-         13 3/8         443         443         430           Gas         Acti	+1	1.32	5.4303	1614	200	2/2		
Oil         Active         2417-2705         13 3/8         513         525           Oil         Active         2274-2816         8 5/8         303         1200           Oil         Active         2274-2816         8 5/8         303         300           P&A         Active         2325-2359         8 5/8         512         3125         700           P&A         Active         2325-2359         8 5/8         505         350         350           P&A         B         Active         2325-2359         8 5/8         805         350           P&A         B         Active         3125-2359         8 5/8         702         50           P&A         B         Active         18/5-238         10         313         Unk.           Oil         Active         18/5-2238         10         313         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10472         5 1/2         443         430           Active         10472         5 1/2	1			+				
Oil         Active         2417-2705         13.378         3137         520           Oil         Active         2274-2816         8.5/8         303         300           Oil         Active         2274-2816         8.5/8         303         300           Inj         Active         2325-2399         8.5/8         538         50           P&A         8.5/8         8.5/8         338         50           P&A         8.5/8         8.5/8         350         350           PA         8.5/8         8.5/8         350         350           PA         8.5/8         8.5/8         300         300           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         10461-         51/2         443         430           Oil         Active         10461-         133/8         443         430           Oil         Active         10461-         133/8         443         430           Oil         Active         10472         51/2         10600         1810	-	5 1 33	1.4390	surface	surface	14		
Oil   Active   2274-2816   8 5/8   303   300     Dia   Active   2274-2816   8 5/8   303   300     Dia   Active   2325-2399   8 5/8   51/2   2325   60     P&A	$\dagger$	1	7 9955	surface	┝	surface		
Oil         Active         2274-2816         8 5/8         303         300           Inj         Active         2274-2816         8 5/8         303         300           P&A         3125         700           P&A         8 5/8         5 1/2         2325         60           PA         8 5/8         8 5/8         805         350           PA         8 5/8         702         50           PA         8 5/8         702         50           PA         8 5/8         702         50           PA         8 1/4         518         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         10461-         51/2         4487         900           Gas         Active         10461-         133/8         4443         430           Gas         Active         10461-         51/2         10600         1810           Active         10477-         51/2         10600         1810	t	L	9.7421	surface	-	surface	3/22/1998	30-015-26452
Oil         Active         2274-2816         8 5/8         303         300           Inj         Active         2325-2399         8 5/8         51/2         3125         700           P&A         325-2399         8 5/8         51/2         2325         60           P&A         8 5/8         8 5/8         805         350           P&A         8 5/8         8 5/8         350         350           PA         8 5/8         702         50           PA         8 1/4         51/2         6289         200           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         318         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         4487         900           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10472         5 1/2         10600         1810	t							
Oil   Active   2274-2816   8 5/8   303   300	П		-	+			3/10/1008	30-015-30001
Dig   Active   2325-2359   8 5/8   538   50     Dig   Active   2325-2359   8 5/8   51/2   2325   60     P&A   8 5/8   8 5/8   805   350     P&A   8 5/8   702   50     P&A   8 5/8   702   50     Oil   Active   1875-2238   10   313   Uak.     Oil   Active   3942-4245   8 5/8   4437   900     Oil   Active   10461-   133/8   10600   1810	٦	_	+	╅		Surface	Circ. All strings	838
P&A   Active   2325-2399   8 5/8   538   50	†	/8 1.32	4.3881 CI	Circ. surface		+-		
P&A   Active   2325-2399   8.5/8   538   50	1							
Inj   Active   23.2-237   51/2   2325   60     P&A   8 5/8   805   350     P&A   8 5/8   805   350     P&A   8 5/8   702   50     P&A   8 5/8   702   50     Oil   Active   1875-2238   10   313   Unk.     Oil   Active   3942-4245   8 5/8   429   350     Oil   Active   3942-4245   8 5/8   443   430     Oil   Active   10461-   13 3/8   1000     Oil   Active   10461-   13 3/8   443   430     Oil   Active   10461-   13 3/8   1000     Oil   Active   10461-   104	T	1,4 1.32	4.4514	244	318		4/1/1956	30-015-01/08
P&A         8 5/8         805         350           P&A         8 5/8         805         350           P&A         8 5/8         702         50           P&A         8 5/8         702         50           Oil Active Oil Active 3942-4245         8 1/4         313         Unk.           Oil Active 3942-4245         8 5/8         429         350           Oil Active 10461- 13 3/8         443         430           Oil Active 3942-4245         8 5/8         429         350           Oil Active 10461- 13 3/8         443         430           Oil Active 10461- 13 3/8         10600         1810	T	Ŀ	5.7695	1868	1982			
P&A         8 5/8         805         350           P&A         5 1/2         6289         200           P&A         8 5/8         702         50           P&A         8 5/8         702         50           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10472         9 5/8         2705         1000           Oil         Active         10472         5 1/2         10600         1810				1				
P&A         8 5/8         805         350           P&A         5 1/2         6289         200           P&A         8 5/8         702         50           P&A         8 5/8         702         50           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         4487         900           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10472         9 5/8         2705         1000           Oil         Active         10472         9 5/8         2705         1000           Oil         Active         10472         5 1/2         10600         1810							4/3/1060	30-015-01703
P&A         \$ 1/2         6289         200           P&A         8 5/8         702         50           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         4487         900           Oil         Active         10461-         13 3/8         443         430           Oil         Active         10472         9 5/8         2705         1000           Oil         Active         10472         5 1/2         10600         1810	٦	SEE ATTACHED PLUGGING DIAGRAM	NGGING MA	CKAIN				
P&A         8 5/8         702         50           P&A         8 5/8         702         50           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         4487         900           Gas         Active         10461-         13 3/8         443         430           Coll         Active         10472         9 5/8         2705         1000           Coll         Active         10472         9 5/8         10600         1810	200			+				
P&A         8 5/8         702         50           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         1875-2238         10         313         Uak.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         443         430           Gas         Active         10461-         13 3/8         2705         1000           )         5 1/2         10600         1810				-				
P&A         8 376         702         33           Oil         Active         1875-2238         10         313         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Oil         Active         10461-         13 3/8         443         430           Gas         Active         10461-         13 3/8         2705         1000           )         5 1/2         10600         1810	T	SEE ATTACHED PLUGGING DIAGRAM	UGGING DIA	GRAM			7/14/1953	30-015-01722
Oil         Active         1875-2238         10         313         Unk.           Oil         Active         Oil         8 1/4         518         Unk.           5 1/5         1875         25           5 1/5         1875         25           5 1/2         4487         900           6 Active         1046-         13 3/8         443         430           7 Active         10472         9 5/8         2705         1000           8 5/8         2705         1810         1810	Τ							
Oil         Active         1875-2238         10         313         Unk.           Oil         Active         Oil         6 1/5         1875         25           Oil         Active         3942-4245         8 5/8         429         350           Gas         Active         10461-         13 3/8         443         430           Coll         Active         10461-         13 3/8         443         430           Coll         Active         10472         9 5/8         2705         1000           Coll         5 1/2         10600         1810         1810				1				
Oil         Active         1875-2238         10         313         Unk.           Oil         Active         Oil         8 1/4         518         Unk.           Oil         Active         3942-4245         8 5/8         429         350           Gas         Active         10461-         13 3/8         443         900           I         5 1/2         4487         900         1810           I         5 1/2         1060         1810           I         5 1/2         10600         1810				1			11/15/1940	30-015-01705
Oil Active 3942-4245 8 5/8 4487 900  Gas Active 10461- 13 3/8 443 430  Oil Active 10461- 13 3/8 443 430  Oil Active 10461- 13 3/8 1705 1000  Oil Active 10461- 13 3/8 1487 900	Unk.	1		1				
Oil Active 3942-4245 8 5/8 429 350 Gas Active 10461- 13 3/8 443 430  G 5 1/2 10660 1810  1	+	68 1 8/	\$ 2206	1703	1746			
330 FEL (I)  130 FEL (I)  131 FEL (I)  132 FEL (I)  133 FEL (I)  134 #2  10451- 133/8 443 430  10472 9 5/8 2705 1000  2 1140 FEL (II)  2 1140 FEL (II)  2 1150 FEL (II)	+	1						00111
5 1/2 4487 900  5 1/2 4487 900  5 1/2 4487 900  5 1/2 10487 900  10472 9 5/8 2705 1000  1 1140 FEL (H) 5 1/2 10600 1810		Ц	2.4219 Ci	Cire.			7001	30-015-31389
330 FEL (1)  Gas Active 10461- 13 3/8 443 430  Inte 34" #2 9 5/8 2705 1000  E 1140 FEL (H) 5 1/2 10600 1810	-	/8 1.32	4	Circ.				
o State *34* #2 Gas Active 10461- 133/8 443 430 1. & 1140 FEL (H) 51/2 51/2 10600 1810				+				
OSING 34 #2 GANDE 10472 9 5/8 2705 1000 1. & 1140 FEL (H) 5 1/2 10600 1810	t	1.32	1.6645 Ci	Circ.			2001	30-015-31550
(H) 5.172 10600 1810	t	L	3.1917 Ci	Circ.				
	H	/8 1.32	5.7695	1	262			
C D 30 E Cartin 36				+				
-5 K-ford Section 55	+							
750 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 - 11 - 500 -	Т	1.32	3.9321- CI	Н		surface	-9/2/1976 -	30-015-21826
5 1/2 6404	7	/8 1.32		Circ. surface		surface		
			V@	V@438				
נוור מ בזמן ורב וגם								

Well and Location	Type	Status	Perforations	Cassing Size	Depth	No. of Sacks	Hole Size	CMT YLD	FT/FT3	Meas. TOC	%001 Ø	75%	% 05 Ø	Date Drilled	API Number
	ē		2640,3000	13.378	400	375	17 1/2	1.32	1.4390	Circ.	surface		surface	1/13/1993	30-015-27161
Melrose Energy	3	VCIIVE	2040-2300	9/2/8	2600	0001	12 1/4	1.32	3.1917	Circ.	surface		surface		
OIS FNI & 990 FWI. (D)				4 1/2	3100	625	7 7/8	1.32	4.3881	Circ.	surface		surface		
			Ц				77. 5	;;	2 4210	ريس	enrface		surface	10/17/1997	30-015-29700
Melrose Energy	Ö	Active	2603-2859	8 5/8	333	C/ 57	7 7/8	135	5 7695	Circ	surface		surface		
Artesia Unit #69				2/1/2	7221	3									
430 FNL & 990 FWL (U)														00011111	30 015 30863
Melinte Energy	ö	Active	2347-2894	8 5/8	350	375	12 1/4	1.32	2.4219	Circ.	surface		surface	1/11/13%	30-013-53005
Artesia Unit #71 (E)				5 1/2	3004	920	7.7/8	1.32	5.7695	Circ.	surtace		SULINCE		
1650 FNL & 330 FWL															
							1,1,1	;;;	2 4310	<u>:</u>	eurface		surface	2/27/1998	30-015-29863
Melrose Energy	ö	Active	2707-2899	8 5/8	848	5 5	17.7%	132	4 3881	j.	surface		surface		
Artesia Unit # 72				4112	3095	3	0//	201	1						
2210 FNL & 990 FWL (E)															
	ā	Active	3668.2678	8/5/8	311	300	12 1/4	1.32	2.4219	Circ.	surface		surface	2/10/1998	30-015-29998
Meirose Energy	3		2002	41/2	5867	200	7 7/8	1.32	4.3881	Cjrc.	surface		surface		
449 FNL & 1651 FWL (C)															
									2,4310	1	anthana		surface	3/26/1998	30-015-29999
Melrose Energy	ΠO	Active	2610-2798	8 5/8	327	275	12 1/4	1.32	1 2001	از از	ourface.		surface		
Artesia Unit #75				4 1/2	3000	8	*	1.32	4.3001	CIII.					
1650 FNL & 1650 FWL (F)													٠		
	į		1100 0030	9/3 8	314	325	12 1/4	1.32	2.4219	Circ.	surface		surface	3/25/1998	30-015-30000
Melrose Energy	3	Venve	┸	4 1/2	3120	059	7 7/8	1.32	4.3881	Circ.	surface		surface		
1650 FSI & 1155 FWL/L.)															
(A					,					į			annegation	0961/61/9	30-015-01737
BP Amoco	Oil	Inactive	6297-6315	8/5/8	750	300	10	1.32	7,1303	1467	Suriace		No.		
Empire Abo Unit E #40				\$ 1/2	6405	320	8//	1.3 02 1.60	0.7025	TO TO					
660 FNL & 660 FEL (A)				*5 1/2 cmt'd w/ 1	/2 cmt'd w/ 170 sx HYS & 150	8x 4 % Inco				20.00					
			3150 3335	-	109	75	9 5/8	1.32	4.1996		185	289	393	0961/1/6	30-015-01751
Melrose Energy	5	TIMECTAE	20077-0017	4 1/2	2257	125	6 1/4	1.32	9.7421		059	1021	1453		
330 FNL & 990 FEL (B)															
				9,50	95	37.6	8/20	132	10.0423		surface	surface	surface	0961/1/9	30-015-01735
BP Amoco	ទី	Inactive	6210-024	6 3/6	0519	2754	7 7/8	1.32	5.7695		#VALUE!	1939.	#VALUE		
Empire Abo Unit # E-39				/M P	125 sx HYS & 150	& 150 sx 4% Incor	١. ا					64%cff.			
מאן דוור ה זיים ודים וה													909	4/70/1070	30-015-22818
BP Amoco	Ö	Inactive	6244-6254	8 5/8	798	450	=	1.32	3.9321	Circ.	surface		Surface	616116714	2000
Empire Abo Unit E # 392				\$ 1/2	6320	1780	7 7/8	1.32	5.7695	Circ.	surrace		am i unc		
959 FNL & 2400 FEL (B)										700 80 4					
			4	0.5.0	000	97	E	1 32	3.9321	Circ.	surface		surface	5/14/1979	30-015-22819
ВР Атосо	3	Inactive	0/16-010	0/5 0	9300	1675	7.7/8	1.32	5.7695	Circ.	L . :		surface		
Empire Abo Unit E #393										V@ 302	I				
1110 FNL & 2230 FEL (B)					3-										

Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of	Hole	CMT YLD	FT/FT3	Meas. TOC	Ø 100%	75%	%0S Ø	Date Drilled	API Number
					906	957	ç	1 33	7 1565	Cjre	surface		surface	4/24/1979	30-015-22843
ВР Атосо	ਰ	Inactive	6112-6120	82/8	900	955	7.7/0	: :	\$ 7605	J.	surface		1901		
Empire Abo Unit E #395				7/1 5	0237	1700	3	7,5		V@300					
75 FNL & 1820 FEL (B)															
			2167 2172	1	580	75	10 3/4	1.32	2.7534		307	376	444	2/12/1961	30-015-01749
Melrose Energy	5	Active	C/17-/017	410	2214	125	61/4	1.32	9.7421		607	1008	1410		
Artesia Unit #10				7 3/12											
SOUTH CE ISSUENT (C)													]	0,000	30.015.01.726
BP Among	ē	Inactive	6242-6250	8 5/8	737	300	- 11	1.32	3.9321	Circ.	surface		surface	0/11/1900	30-013-01/30
Empire Abo I init F #38				5 1/2	6344	830	7.7/8	1.32	5.7695	Cjic.	23		3183		
640 FNI & 1980 FWI (C)															
													ļ	250175110	30.015.31933
ВРАтосо	ö	Active	6050-6102	8 5/8	750	200	Ξ	1.32	3.9321	Circ.	surface		surrace	0/1//12/0	30.017.51055
Empire Abo Unit E #382				\$ 1/2	6400	1825	77/8	1.32	5.7695	Circ.	surface		Suriace		
1175 FNL & 1316 FWL (C)								1		V (@399					
									, 63,1	1	a linguist		surface	6/61/97/1	30-015-22765
BP Amoco	Oil	Inactive	6206-6216	8 5/8	750	055	1	1.32	3.3221		olirface		85/		
Empire Abo Unit E #383				\$172	0770	1450	0//	7,5		V @208					
1190 FNL & 1910 FWL (C)									T	1 (62.00					
								1	2 0331	ئ	eurface		surface	1/24/1979	30-015-22766
BP Amoco	ÖÏ	Inactive	6222-6236	8 5/8	08/	400	10,5	1.32	3077 3	1	Surface Surface		38		
Empire Abo Unit E #384				5172	6300	1550	«// /	77.7	2: //02/	V @300					
600 FNL & 1400 FWL (C)				1											
			1303 3003	9/2 0	1000	363	SER AT	SEE ATTACHED PLUGGING DIAGRA	UGGING	DIAGRA	0001		1000	8/8/1975	30-015-21536
BP Amoco	ē	\$8	6770-0770	0 3/0	5889	009							6385		
Empire Abo Unit E#381				21175	33										
1155 FNL & 2475 FWL															1,1,10
	2	1	2130 2140											12/20/1960	30-015-02654
Metrose Energy	3	TIMETING	0417-0C17	4 1/2	2163	450	∞	1.32	4.1891		surface	297	616		
320 ENT 6. 360 END (I)															
300 FIRE & 300 FWI (E)														3,0	30 015 01 753
BP Among	į	Inactive	6283-6313	8 5/8	751	400	12 1/4	1.32	2,4219	\$	surface		2	8/10/1900	30-013-01/33
Empire Aby Init F #37				51/2	6350	800	7.7/8	1.32	5.7695	Circ.	257		3304		
660 FNI & 660 FWI (D)															
							:	5.	1 0131	y.ii.	enrince		surface	7/4/1975	30-015-21535
ВР Атосо	ö	Inactive	6280-6318	8 5/8	1000	£ 5	7 7/0	25:	\$ 7605	i i	2301		4296		
Empire Abo Unit E #371				2112	0350	3	2// /	7		V @ 401					
1195 FNL & 10 FWL (D)										0					
			0500 0300	0/3 0	750	400	=	1.32	3.9321	Surf.	surface		surface	2/61/9/8	30-015-22203
BP Amoco	5	Inactive	0/70-7570	6 3/6	1819	100	7.7/8	1.32	5.7695	Circ.	surface		2575		
Empire Abo Unit E #3/2				7,11,5						V @ 421					
100 FNL & 1291 FWL (U)															
DD A	į	Inactive	1769-5569	8 5/8	800	450	Ξ	1.32	3.9321	Circ.	surface		surface	2/11/1979	30-015-22775
Empire Abo Unit F #374	3			5112	6345	1425	7 7/8	1.32	5.7695	Circ.	surface		6[6		
130 ENI & 700 EWI (D)										V @ 299					
(2) THE WOLLD'S															

The black   Colored   Co	States         Fine of Galos, State         Depth         State         CNAT VLD         FT/FR13         Mare         PAGE 01007         758         Databate         Action 132         STATE         CNAT VLD         FT/FR13         TOTAL         CNAT VLD         FT/FR13         CNAT VLD         FT/FR13         CNAT VLD         PAGE 0100 VLD																
PARA         6216-6238         8 58         8 50         4489         11         1.32         5.1051         Circ         nuffice         11101594           Haustive         236-6230         5 12         6.215         1.00         7.78         1.23         5.7695         Circ         1.02         1	Page   6216-6229   8.546   9.500   4.60   11   1.32   5.1665   Circ.   surface   1115   1.150   1.15	H	ă,	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole Size	CMT YLD	FT/FT3	Meas.	2001 Ø	75%	20%	Date Drilled	API Number
Fig. 1992-270   St. 12   St. 1350   7778   1.32   5.7695   Circ. surface   1355   Circ. surface   1355   Circ. surface   1351   St. 1700   Circ. surface   1352   Circ. surface   1352   Circ. surface   1352   Circ. surface   1353   Circ. surface   1354   Circ. surface   1355   Circ. surface   135	Fig. 1972   STREAM			D.P. A	8116 8118	8/8	800	480	=	1.32	3.9321	Circ.	surface		surface	4/16/1978	30-015-22462
Limetice   1262-270   S   10   12   12   12   12   12   12   12	Lineative   1266-2270   S   10   12   14   1.12   5.7695   Circ. Com   2066   S   11   11   11   11   11   11   1	٦,	3	Š	0770-0770	210	57.09	1300	7 7/8	1.32	5.7695	Circ.	surface		1325		
Lineative   2362-2270   S 1 D   2560   T 5   T 778   L 1.22   S 7.695   Circ.   2069   2354   41777001     Lineative   6266-6234   S 58   T 64   S 90   T 78   L 1.22   S 7.695   Circ.   2069   2314   41777001     Lineative   6266-6234   S 58   T 64   S 90   T 78   L 1.22   S 7.695   Circ.   2069   2317     Lineative   6217-6237   S 1.2   Circ.   2069   T 78   T	Limetive   256-2270   S   17   1.2   2.439   Circ Can   266-6284   S   26   27   27   27   27   27   27   27		1														
Limestive   CSGA-G234   S 578   778   1.22   2.4219   40   aurface   236   1171001	Lineative   Code-6234   S 570   T 64   S 59   T 778   L 1.22   Z 4.219   Circ. Cast   2669   Circ. Cast   2669   S 510   Circ. Cast   2669		T													, , , , , , , , , , , , , , , , , , , ,	30.015.01745
Contractive	Control   Cont		Ī		חדור ואור											12/10/1954	30-015-01/43
Lancitive   6236-6234   8 586   756   359   12 14   1.32   5.7665   Citic.   surface   3113	Limetive   620-6.294   8 5/8   7564   350   12 1/4   1.12   2.4219   40   aurfice   216   85/1660   11   1.12   2.4219   40   aurfice   311.3   311.5   312   64.0   25/0   25/0   25/0   21/16/0   25/0		3	a la compa	2177.7777		2640	75	7.7/8	1.32	5.7695	Circ Cmt	5069		2354	4/17/2001	Circ. Crat to surra
Lancitive         6366-6294         8:58         764         359         12 1/4         1.32         5.4219         40         surface         205         837 17/8         1.32         5.4695         Circ.         surface         3113         8.11879           Inactive         6188-6200         8:58         7.78         1.32         5.1695         Circ.         surface         3113         3114796           Inactive         6188-6200         8:58         7.90         500         11         1.32         5.1695         Circ.         surface         3114796           Inactive         6177-617         8:50         10         1.1         1.2         5.1695         Circ.         surface         2211797           Inactive         6177-617         8:50         50         1.1         1.2         5.1695         Circ.         surface         2211979           Inactive         6217-6234         8:50         50         1.1         1.2         5.1895         Circ.         surface         2211979           Inactive         6217-6234         8:50         8:0         1.1         1.2         5.9321         Circ.         surface         2211979           Inactive         6217-6234 <td>  Emerire   \$566-\$294   \$ 5.56   \$ 5.00</td> <td></td> <td>T</td> <td></td>	Emerire   \$566-\$294   \$ 5.56   \$ 5.00		T														
Imacine   6386-6294   8 5.8	Emercine   G186-G194   8 5.8   756   6350   728   1.23   2.4219   5.1765   C.F.c.   surface   3113   3113   3121		T												355	07017670	10.015.01757
Inactive   6186-6200   5.58   750   778   1.32   5.7695   Circ.   surface	Sign		ē	Inactive	6266-6294		764	350	12 1/4	1,32	2.4219	\$	surface		500	2001100	20.00
Inactive   6186-6200   8 5/8   750   500   778   1.12   5.952   Circ.   surface   surface   71411976   1.12   1.12   5.7695   Circ.   surface   1.1141979   1.11	Inactive 6186-6200 8 5.59   750   11   1.22 3.9321 Circ. surface   1 surface						6350	850	7.7/8	1.32	5.7695	Ĉ.	surface		CITC		
Insective         6136 6.200         8 5/8         750         11         1,32         5,921         Circ.         surface         114/1976           Insective         6217.6237         \$ 172         6400         2.260         77/8         1,32         5,7695         Circ.         surface         105/4           Insective         6217.6237         \$ 172         6400         77/8         1,32         5,7695         Circ.         surface         105/4           Insective         6217.6237         \$ 172         6435         1440         77/8         1,32         5,7695         Circ.         surface         105/4           Insective         6220.6240         \$ 57         6357         1440         77/8         1,32         5,7695         Circ.         surface         1,21979           Insective         6220.6240         \$ 57         6397         1900         77/8         1,32         5,7695         Circ.         surface         1,21979           Insective         6220.6240         \$ 57         6397         1900         77/8         1,32         5,7695         Circ.         surface         2,21/1979           Active         6220.6240         \$ 57         639         1,77	Inactive   6186-6200   8 5.88   750   11   1.137   3.9321   Circ.   surface   surface   714/1976   1.147   1																
Imacine 6186-6200 8 5/8 750 400 11 1.32 3.921 Circ. surface author 223/1979   1.32 5.7695 Circ. surface 223/1979   1.32 6.337 1990 7.78 1.32 5.7695 Circ. surface 31/1979   1.32 6.334 6.335 1.500 7.78 1.32 5.7695 Circ. surface 31/1979   1.32 6.334 6.334 6.335 1.500 7.78 1.32 5.7695 Circ. surface 31/1979   1.32 6.334 6.334 6.336 6.33 6.335 1.33 6.335 1.340 7.78 1.32 6.3495 Circ. surface 31/1979   1.32 6.334 6.335 1.33 6.335 1.340 6.33 6.334 6.334 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.34 6.335 1.35 6.355 1.35 6.355 1.35 6.35 1.35 6.355 1.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35 6	Insective   6186-6200   8 5/8   750   778   1.32   5.7655   Circ.   surface   surface   surface   27/19/19/19/19/19/19/19/19/19/19/19/19/19/	1	T										1		3	7/14/1076	30.015.21806
Hanctive   6230-6234   8 5/8   759   400   11   132   5.7665   Circ   surface   27/1979     Inactive   6230-6234   8 5/8   759   400   11   132   5.7665   Circ   surface   1024   27/1979     Inactive   6230-6234   8 5/8   800   500   11   132   5.7665   Circ   surface   1024   27/1979     Inactive   6230-6234   8 5/8   800   600   11   132   5.7665   Circ   surface   14/8   27/1979     Inactive   6230-6234   8 5/8   800   600   11   132   5.7665   Circ   surface   14/8   27/1979     Inactive   6230-6234   8 5/8   800   600   11   132   5.7665   Circ   surface   14/8   27/1979     Inactive   6230-6234   8 5/8   800   600   11   132   5.7665   Circ   surface   14/8   8 5/11     Inactive   6230-6234   8 5/8   8 6/8   400   11   132   5.7665   500   surface   14/8   8 5/11     Inactive   6230-6234   8 5/8   8 6/8   400   11   132   5.7665   500   surface   14/8   8 6/8     Inactive   6230-6234   8 5/8   720   220   10   132   5.7665   Circ   surface   14/8   8 6/8     Inactive   6230-6234   8 5/8   720   220   10   132   5.7665   Circ   surface   14/8   8 6/8     Inactive   6230-6234   8 5/8   8 6/8   8 6/8   132   5.7665   Circ   surface   16/9   8 6/9     Inactive   6230-6234   8 5/8   8 6/8   8 6/8   132   5.7665   Circ   surface   16/9   19/9     Inactive   6230-6234   8 5/8   8 6/8   8 6/8   132   5.7665   Circ   surface   16/9   19/9     Inactive   6230-6234   8 5/8   8 6/9   7 7/8   132   5.7665   Circ   surface   16/9   19/9     Inactive   6230-6234   8 5/8   8 6/9   7 7/8   132   5.7665   Circ   surface   16/9   19/9     Inactive   6230-6234   8 5/8   8 6/9   7 7/8   132   5.7665   Circ   surface   16/9   19/9   19/9     Inactive   6230-6234   8 5/8   8 6/9   7 7/8   132   5.7665   Circ   surface   16/9   19/9   19/9     Inactive   6230-6234   8 5/8   8 6/9   7 7/8   132   5.7665   Circ   surface   16/9   19/9	Fig. 1.5   Fig. 1.5   Fig. 1.5   Fig. 1.5   Fig. 1.5   Fig. 2.5	1	┪	Inactive	6186-6200		750	500	=	1.32	3.9321	Circ.	surface		Suring	0/64/44//	
Inactive 6217-6237   8 5/8   750   400   11   1.32   5.7695   Circ. surface   surface   273/1979     Inactive 6220-6240   8 5/8   800   500   11   1.32   5.7695   Circ. surface   surface   272/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   3/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   3/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   3/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   3/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6220-6240   8 5/8   750   300   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6220-6240   8 5/8   720   300   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6220-6240   8 5/8   720   300   11   1.32   5.7695   Circ. surface   surface   8/1/1979     Inactive 6240-6242   8 5/8   720   250   10   1.32   7.7695   Circ. surface   surface   8/1/1970     Inactive 6240-6242   8 5/8   720   250   10   1.32   7.7695   Circ. surface   19/10   1/20   1/20     Inactive 6240-6241   8 5/8   800   300   11   1.32   5.7695   Circ. surface   19/10   1/20   1/20     Inactive 6240-6214   8 5/8   800   300   11   1.32   5.7695   Circ. surface   19/10   1/20   1/20     Inactive 6240-6214   8 5/8   800   300   11   1.32   5.7695   Circ. surface   19/10   1/20   1/20     Inactive 6240-6214   8 5/8   800   300   11   32   5.7695   Circ. surface   19/10   1/20   1/20     Inactive 6240-6214   8 5/8   800   300   11   32   5.7695   Circ. surface   19/10   1/20	Inactive   6217-6237   8 5/8   759   400   11   1.32   5.7695   Circ   surface   1024   1024   1025   1400   77/8   1.32   5.7695   Circ   surface   1024   1024   1025   1221979   1220-6240   8 5/8   800   600   11   1.32   5.7695   Circ   surface   1024   1221979   1220-6240   8 5/8   800   600   11   1.32   5.7695   Circ   surface   12210-799   122		✝				6400	2260	7 7/8	1.32	5.7695	Circ	surface		Surince		
Inhecitive   6217-6237   5.56   759   400   11   1.32   5.7695   Circ.   surface   1024   Circ.   Surface   1024   Circ.   Surface   1024   Circ.   Surface   C20-6240   5.56   800   500   11   1.32   5.7695   Circ.   Surface   272/1979   Circ.   Surface   C20-6240   5.56   800   600   11   1.32   5.7695   Circ.   Surface   Surface   Circ.   Circ.   Circ.   Surface   Circ.	Inective 6230-62340   8 5/8   759   400   11   1.32   5.7695   Circ. surface   10234   1024   11024		T									V @400					
Inactive 6217-6234   8 5/8   759   400   11   1.32   5.7695   Circ. surface   10124   Circ. surface   Circ. surface   10124   Circ. surface	Inective 6217-6237 8 5.88	1	T										1			0701/6/6	30.015.33.768
Page	100   178   1.32   5.7695   Circ.   surface   1124   Circ.   surface   1121   Circ.   surface   Surface   Circ.		+	Inactive	75.63-71.69		750	400	11	1.32	3.9321	Circ	surface		surface	2/2/19/9	30-013-52-100
Inactive   6230-6240   8 5/8   800   500   11   1.32   3.9321   Circ.   surface   2/2/2/1979   S 1/2   6357   1900   77/8   1.32   5.7695   Circ.   surface   3/2/2/1979   S 1/2   6350   1550   17/8   1.32   3.9321   Circ.   surface   3/2/1979   S 1/2   6350   1550   77/8   1.32   3.9321   Circ.   surface   3/2/1979   S 1/2   6350   1550   77/8   1.32   3.9321   Circ.   surface   3/2/1979   S 1/2   6350   1550   77/8   1.32   3.9321   Circ.   surface   3/2/1979   S 1/2   6350   1550   77/8   1.32   3.9321   Circ.   surface   3/2/1979   S 1/2   6350   3/2/2   77/8   1.32   3.9321   Circ.   surface   3/2/1977   S 1/2   6350   3/2/2   1	Inactive 6230-6240 8 5/8 800 500 11 1.32 3.7695 Circ. surface 2720/679	í	7	2			6355	1400	1 7/8	1.32	5.7695	Circ.	surface		1024		
Inactive   6230-6240   8 5/8   800   500   11   1.32   5.7695   Circ.   surface   surface   2.721/979   2.7695   Circ.   2.7	Inactive 6230-6240	- 1	T	T								V @300					
Inactive         6230-6240         8 5/8         800         500         11         132         3.921         Circ.         surface         2221/19/19           Inactive         6220-6240         8 5/8         800         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Inactive         6220-6240         8 5/8         800         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Active         6220-6240         8 5/8         805         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Active         6224-6242         8 5/8         805         400         11         1.32         5.7695         Circ.         surface         3/1/1979           P&A         6234-6242         8 5/8         805         400         11         1.32         5.7695         S00         surface         8/1/1979           P&A         6239-6243         8 5/8         750         7/8         1.32         5.7695         S00         surface         8/1/1979           Inactive         6236-6245         8 5/8         7/8         1.32         5.7	Inactive         6230-6240         8 5/8         800         500         11         132         3.9321         Circ.         surface         2221/19/19           Inactive         6220-6240         8 5/8         800         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Inactive         6220-6240         8 5/8         800         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Active         6220-6240         8 5/8         800         600         11         1.32         5.7695         Circ.         surface         3/1/1979           Active         6224-6242         8 5/8         805         400         11         1.32         5.7695         Circ.         surface         3/1/1979           P&A         6234-6242         8 5/8         805         400         11         1.32         5.7695         500         surface         surface         3/1/1979           P&A         6234-6242         8 5/8         750         300         11         1.32         5.7695         500         surface         surface         surface         surface         surface         surface	1	1														20,000 300 00
Insertive 6230-6240	Intentive   0.220-0.204   5   1.2   6.557   1900   77/8   1.32   5.7695   Circ.   surface   surface   5   1.1979     Intentive   6.220-6.240   8   5/8   800   6.500   11   1.32   3.9321   Circ.   surface   3/1/1979     Active   6.234-6.242   8   5/8   800   6.500   11   1.32   3.9321   Circ.   surface   5/1/1979     Active   6.234-6.242   8   5/8   8.05   4.00   11   1.32   3.9321   Circ.   surface   5/1/1979     P&A   6.239-6.243   8   5/8   750   300   11   1.32   3.9321   Circ.   2.562   4.466     Intentive   6.234-6.244   8   5/8   750   300   11   1.32   3.9321   Circ.   2.562   4.466     Intentive   6.234-6.254   8   5/8   720   2.50   10   1.32   7.7695   6/4     Intentive   6.234-6.254   8   5/8   720   2.50   10   1.32   7.7695   6/4     Intentive   6.234-6.254   8   5/8   8   8   8   8   8   8   8   8   8	1	7		0753 0553	8/5/8	800	200	Ξ	1.32	3.9321	Cire.	surface		surface	2/22/1979	30-013-77/80
The circle   C220-C240   8 5/8   800   600   11   1.32   3.9321   Circ.   surface   31/1979   S1/2   Circ.   surface   31/1979   S1/2   Circ.   surface   31/1979   Circ.   S1/2	Pack   6230-6240   8 5/8   800   600   11   1.32   3.9321   Circ. surface   3/1/1979		7	TRICTIVE	OCTO COLOR	210	7389	1900	7 7/8	1.32	5.7695	Circ.	surface		surface		
Inactive   6220-6240   8 5/8   800   600   11   1.32   3.9321   Circ.   surface   31/1979   448   1.32   5.7695   Circ.   surface   31/1979   448   1.32   5.7695   Circ.   surface   31/1979   448	Inactive   6220-6240   8 5/8   800   600   11   1.32   3.921   Circ.   surface   448   4	- 1	1									V @ 300					
Inactive   6220-6240   8 5/8   800   600   11   1.32   5.7695   Circ.   surface   448   448   446   5.1/3   5.7695   Circ.   surface   448   448   446   4476   4	Tabective   6220-6240   8 5/8   800   600   11   1.32   3.9321   Circ. surface   448   31/1979     Active   6234-6242   8 5/8   805   400   11   1.32   3.9321   11   surface   5/3/1979     Active   6234-6242   8 5/8   805   400   11   1.32   3.9321   11   surface   5/3/1979     P&A   6.39-6243   8 5/8   750   300   11   1.32   3.9321   Circ. surface   8/22/1977     P&A   6.39-6243   8 5/8   750   300   11   1.32   3.9321   Circ. surface   8/22/1977     Inactive   6.246-6254   8 5/8   720   250   10   1.32   5.7695   Circ. surface   5/15/1960     Inactive   6.246-6254   8 5/8   720   250   10   1.32   5.7695   Circ. surface   5/15/1960     Inactive   6.246-6254   8 5/8   720   250   77/8   1.32   5.7695   Circ. surface   5/15/1960     Inactive   6.246-6254   8 5/8   8 800   300   11   1.32   3.9321   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.9321   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   11   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 5/8   8 800   300   1   1   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 6/8   8 800   300   1   1   1.32   3.7695   Circ. surface   1673     Inactive   6.204-6214   8 6/8   8	- 1	1	T													
Limetive 6220-6240 8 5/8 8 5/8 8 5/8 6 6/0 11 1.32 3/921 Circ. surface surface 3/1/19/9	Inactive         6220-6240         8 5/8         800         600         11         1.32         3.9321         Circ.         surface         448         3/1/19/9           Active         6234-6242         5 1/2         6350         1550         77/8         1.32         5.7695         Circ.         surface         5/1/19/9           Active         6234-6242         8 5/8         80.5         400         11         1.32         5.7695         500         surface         5/1/19/9           P&A         6214-6242         8 5/8         750         300         11         1.32         5.7695         500         surface         5/1/19/9           P&A         6219-6243         8 5/8         750         300         11         1.32         5.7695         500         surface         5/1/19/9           P&A         6216-624         8 5/8         750         300         11         1.32         5.7695         Circ.         surface         8/1/1979           Inactive         634-6254         8 5/8         720         250         10         1.32         5.7695         Circ.         surface         8/1/1979           Inactive         5 1/2 cark w/r         1/2         25 <td>1</td> <td>T</td> <td></td> <td>20 00 00</td>	1	T														20 00 00
Active   6234-6242   8 5/8   8 6/8   400   11   1.32   3.9321   11   surface   5/3/1979     Active   6234-6242   8 5/8   8 6/8   400   11   1.32   3.9321   11   surface   5/3/1979     P&A   6239-6243   8 5/8   750   300   11   1.32   3.9321   Circ.   surface   8/22/1977     P&A   6239-6244   8 5/8   750   300   11   1.32   3.9321   Circ.   surface   8/22/1977     Inactive   6246-6254   8 5/8   720   25/9   10   1.32   7.1565   Circ.   surface   5/15/1960     Inactive   6246-6254   8 5/8   720   25/9   10   1.32   7.1565   Circ.   surface   5/15/1960     Inactive   6246-6254   8 5/8   720   25/9   10   1.32   7.1565   Circ.   surface   5/15/1960     Inactive   6246-6254   8 5/8   8 70   25/9   10   1.32   7.1565   Circ.   surface   5/15/1960     Inactive   6246-6254   8 5/8   8 70   25/9   77/8   1.32   5.7695   Circ.   surface   1970   May-01     Inactive   6246-6254   8 5/8   8 800   300   11   1.32   3.7932   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   3.7935   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 5/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 6/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 6/8   8 800   300   11   1.32   5.7695   Circ.   surface   15/13     Inactive   6246-6214   8 6/8   8 8/9   8 8/9   8 8/9   8 8/9   8 8/9   8 8/9   8 8/9     Inactive   6246-6214   8 6/8   8 8/9   8 8/9   8 8/9   8 8/9	Active         6234-6242         8 5/8         80.5         150         17/8         1.32         5.7695         Circ.         surface         51/1979           Active         6234-6242         8 5/8         80.5         400         11         1.32         3.9321         11         surface         surface         51/1979           P&A         6314-6242         8 5/8         750         300         11         1.32         5.7695         500         surface         51/1749           P&A         6319-6243         8 5/8         750         300         11         1.32         5.7695         Circ.         2562         4466         8/22/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         5.7695         Circ.         2562         4466         8/22/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         5.7695         Circ.         surface         surface         surface         8/15/1990           Inactive         6246-6254         8 5/8         7/8         1.78         1.365         Circ.         surface         surface         surface         surface	1	╈	Inochity	07/9/0/19		800	009	=	1.32	3.9321	Circ.	surface		surface	3/1/19/9	30-013-7717
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Active         6234-6242         8 5/8         aby         400         17/8         1.32         5.7695         500         surface         724           P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         2562         4466         8/22/1977           P&A         6239-6243         8 5/8         750         300         11         1.32         5.7695         Circ.         2562         4466         8/22/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         25/2         7.1565         Circ.         surface         8/15/1960           Inactive         2275-2300         5 1/2         6404         27/8         7.78         1.32         5.7695         64         9/15/1979           Inactive         2275-2300         5 1/2         2275         80         7.7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300 <td>Active         6234-6242         8 5/8         6034         17/8         1.32         5.7695         500         surface         724           P&amp;A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         surface         surface         8/2/1977           P&amp;A         6239-6243         8 5/8         750         300         11         1.32         5.7695         Circ.         2562         4466         8/2/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         5.7695         Circ.         surface         8/15/1960           Inactive         2275-2300         404         275*         7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1970         May-01           Inactive         5 1/2         6303</td> <td>- 1</td> <td>1</td> <td></td> <td></td> <td></td> <td>300</td> <td>100</td> <td>]=</td> <td>133</td> <td>3 9321</td> <td>=</td> <td>surface</td> <td></td> <td>surface</td> <td>5/3/1979</td> <td>30-015-22805</td>	Active         6234-6242         8 5/8         6034         17/8         1.32         5.7695         500         surface         724           P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         surface         surface         8/2/1977           P&A         6239-6243         8 5/8         750         300         11         1.32         5.7695         Circ.         2562         4466         8/2/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         5.7695         Circ.         surface         8/15/1960           Inactive         2275-2300         404         275*         7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1970         May-01           Inactive         5 1/2         6303	- 1	1				300	100	]=	133	3 9321	=	surface		surface	5/3/1979	30-015-22805
P&A   6239-6243   8 5/8   750   300   11   1.32   3.9321   Circ.   Surface	P&A   6239-6243   8 5/8   750   300   11   1.32   3.9321   Circ.   S562   4466   S121977	- 1	ē	Active	6234-6242		cos	355	27.0	1	5 7605	Ş	surface		724		
P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         surface         8 122/1977           Inactive         6239-6243         8 5/8         750         300         178         1.32         5.7695         Circ.         2562         4466         8.22/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         8/15/1960           Inactive         5 1/2 card d w/ 125 sx HYS & 150 sx 4% Incor         8         7.78         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         2275-2300         300         11         1.32         3.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         3.7695         Circ.         surface         21         4/5/1979           Inactive         5 1/2         6303	P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         surface         surface         8/22/1977           Inactive         6236-6254         8 5/8         720         250         17/8         1.32         5.7695         Circ.         3562         4466         8/22/1977           Inactive         6236-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         5/15/1960           Inactive         6236-6254         8 5/8         720         250         10         1.32         5.7695         64         surface         5/15/1960           Inactive         2275-2300         5 1/2         22715         80         7.7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         21         4/5/1979						6344	0/4/0	9)	1.32							
P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         2862         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         3562         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         surface         \$1/5/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1665         Circ.         surface         \$1/5/1950           Inactive         2275-2300         5 1/2         2275         80         7.7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         5 1/2         2275         80         7.7/8         1.32         5.7695         Circ.         surface         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673         4/5/1979 <td>P&amp;A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         2852         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         2562         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1665         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         120         17/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         2275-2300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673           Inactive<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	P&A         6239-6243         8 5/8         750         300         11         1.32         3.9321         Circ.         2852         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         2562         4466         822/1977           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         surface         8/15/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1665         Circ.         surface         8/15/1960           Inactive         6246-6254         8 5/8         120         17/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         2275-2300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673           Inactive <td></td>																
P&A   6339-6243   8 5/8   730   77/8   1.32   5.7695   Circ.   2562   4466     Inactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   surface   5/15/1960     Inactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   surface   5/15/1960     Inactive   2275-2300   5 1/2   2275   80   77/8   1.32   5.7695   Circ.   1666   1970   May-01     Inactive   6204-6214   8 5/8   800   300   11   1.32   3.9321   Circ.   surface   27   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   3.7695   Circ.   surface   27   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   4/5/1979     Inactive   6204-6214   8 5/8   64   6404	P&A   639-6243   8 5/8   730   77/8   1.32   5.7695   Circ.   2562   4466     Linactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   8/15/1960     Linactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   8/15/1960     Linactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   8/15/1960     Linactive   2275-2300   5 1/2   2275   80   77/8   1.32   5.7695   Circ.   1666   1970   May-01     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   21   4/5/1979     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   21   4/5/1979     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   1673     Linactive   6204-6214   8 5/8   800   300   11   1.32   5.7695   Circ.   surface   1673   1673     Linactive   6204-6214   8 5/8   800   300   10   10   1.32									1.33	3 0371	نائد	surface		surface	8/22/1977	30-015-22137
Since   Sinc	Sample   S		ΙÖ	P&A	6239-6243	8 5/8	06/	300		1.32	7605	٤	1567		4466		
Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         \$115/1960           Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         \$115/1960           Inactive         2275-2300         5 1/2 cart'd w/ 125 sx HYS & 150 sx 4% Incor         80         7 7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673	Inactive   6246-6254   8 5/8   720   250   10   1.32   7.1565   Circ.   surface   surface   5/15/1960	LJ					6370	ž	9	1.32	3.70%	V @ 430					
Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         \$115/1960           Inactive         2215-2300         *5 1/2 cnt'd w/ 125 sx HYS & 150 sx 4% Incor         *6404         2178         1.78         1.32         \$7695         64         \$15/1955           Inactive         2275-2300         \$1/2         2275         80         77/8         1.32         \$7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         \$7695         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         \$7695         Circ.         surface         1673	Inactive         6246-6254         8 5/8         720         250         10         1.32         7.1565         Circ.         surface         \$1/5/1960           Inactive         2215-2300         \$1/2         2215         80         7 7/8         1.32         5.7695         64         8           Inactive         2215-2300         \$1/2         2215         80         7 7/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         1673         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         1673         4/5/1979	L.															
Inactive 6246-6254	Inactive   6246-6254   8 5/8   720   250   10   1.32   7.130   2.105								,	1	71565	3.5	annegra		aurface	8/15/1960	30-015-01733
S   1/2   Card dw/   125 sx HYS & 150 sx 4% linor   S   1/2   S   1/2 card dw/   125 sx HYS & 150 sx 4% linor   Meas   S   1/2 card dw/   125 sx HYS & 150 sx 4% linor   Meas   S   S   S   S   S   S   S   S   S	S   1/2   6404   215*   77/8   1.32   5.7092   094   1.32   1.3	ł	Г	Inactive	6246-6254	8 5/8	720	250	2	75-1	2001		3 m race				
Fig. 1/2 cmt d w/ 125 sx HYS & 150 sx 4% Incor   Meas	Fig. 1/2 cmt d w/ 125 sx HYS & 150 sx 4% Incor   Meas	1	Т			5 1/2	\$65	275*		1.32	, /g	ž .					
Inactive         2275-2300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         21         4/5/1979	Inactive         2275-2300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6304-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           Inactive         6304-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         21         4/5/1979           S 1/2         6303         1216         77/8         1.32         5.7695         Circ.         surface         1673	1				5 1/2 cmt'd w/ 1	25 sx HYS & 15(	sx 4% Incor				Meas					
Inactive         2275-3300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673	Inactive         2275-2300         5 1/2         2275         80         77/8         1.32         5.7695         Circ.         1666         1970         May-01           Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           Inactive         6204-6214         8 5/8         800         300         11         1.32         5.7695         Circ.         surface         1673	1 .											1			3/3/1955	30-015-01754
S 1/2   2275   80   77/8   1.32   5.7695   Circ.   1000   1777   1.32   1.695   Circ.   1000   1.772	S 1/2	L	Т	Inactive	2275-2300							1	1335		1070	Mayou	Circ Cmt to surfa
Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           5 1/2         6303         1.216         7 7/8         1.32         5.7695         Circ.         surface         1673	Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           5 1/2         6303         1.216         7 7/8         1.32         5.7695         Circ.         surface         1673	1	Т				2275	80	7,78	1.32	2,/0,2	<u>=</u>	200			2, 6, 11	
Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           5 1/2         6303         1.216         7.7/8         1.32         5.7695         Circ.         surface         1673	Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4/5/1979           1002         5 1/2         6303         1.216         7 7/8         1.32         5.7695         Circ.         surface         1673	1	T														
Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4.5173           \$ 1/2         6303         1.216         7 7/8         1.32         5.7695         Circ.         surface         1673	Inactive         6204-6214         8 5/8         800         300         11         1.32         3.9321         Circ.         surface         21         4.03131           5 1/2         6303         1216         77/8         1.32         5.7695         Circ.         surface         1673	1 -			-										-	0/0//5//	30.015.22776
\$ 1/2 6303 1216 7 7/8 1.32 5.7695 Circ. surface	\$1/2 6303 1216 77/8 1.32 5.7695 Circ. surface		T	Inactive	6204-6214	8 5/8	800	300	=	1.32	3.9321	Circ.	surface		77	4/3/19/9	30-013-22110
		1	Т			\$10	6303	1216	8/2 /	1.32	5.7695	Circ	surface		16/3		
			1	T													
		_1	1														
	_																

Well and Location	Type	Status	Type Status Perforations	Casing Size	Depth	No. of Sacks	Hole Size	CMT YLD FT/FT3	FT/FT3	Meas. TOC	Ø 100%	75%	208 @	Date Drilled	API Number
ВР Алюсо	Oil	Oil Inactive	0029-8819	8/58	795	400	II	1.32	3.9321	Circ.	surface		surface	4/9/1979	30-015-22806
Empire Abo Unit F #383				\$ 1/2	6300	1350	1 7/8	1.32	5.7695	Circ.	surface		1159		
1600 FNL & 2350 FWL (F)										V @300					
ВР Атосо	ПO	Inactive	6215-6234	8/5/8	750	300	11	1.32	3.9321	Circ.	surface		surface	7/20/1977	30-015-22138
Empire Abo Unit F #381				2/15	6280	292	1 7/8	1.32	5.7695	Cire.	4285		5282		
1900 FNL & 2260 FWL (F)										V @419					
ВР Аглосо	Oil	Inactive	6200-6210	8 5/8	708	350	01	1.32	7.1565		surface	surface	surface	7/13/1960	7/13/1960   30-015-01738
Empire Abo Unit F #39				\$ 1/2	6350	350*	8/1.2	1.32	5.7695			822			
11650 FNL & 2310 FEL (G)				32 /w b'mr'2/1 2*	1/2 cmt'd w/ 200 sx HYS & 150 sx 4% Incor	sx 4% Incor						55% Eff.			

						No. of	Hole			Meas.	2000	7692	£5.02	Date	API Number
Well and Location	Type	Status	Perforations	Casing Size	Depth	Sacks	Size	CM1 YED	FI/FIS	TOC	2 AL 10	× 2	,	Drilled	
	1														32.00.00
	Ī	Important	27.5.2.7.5	8,5/8	400	30	2	1.32	7.1565		=	187	258	7/12/1955	30-013-01/33
Mellose Lucigy	ナ	2	27.77	2	2325	901	7.6/7	1.32	4.9894		989	1831	985		
1980 FNL & 1980 FEL (G)	T														
									2012	į	1		193	8/30/1979	30-015-22911
ВРАщосо	ē	Inactive	6142-6148	13 5/8	745	550	17 1/2	1.32	0615.	S C	Surince			5000	
Empire Abo Unit F #391	1			8 5/8	3010	950	9	1.32	7.1565	C.E.C.	surface		Surince		
1545 FNI & 1625 FEL (G)				5112	6205	1125	7 7/8	1.32	5.7695	CIE	surface		17%1		
										00 (g)		Ţ		0,671061	20.015.01740
RP Amore	ē	Inactive	6274-6284	8 5/8	857	375	01	1.32	7.1565		surface	surface	surface	3/0/1901	20-012-01/40
Empire Abo Unit F #40	†			5112	6421	340*	7 7/8	7.3 & 1.88	5.7695			211			
1650 FNI & 990 FEI (H)	T			*5 1/2 cmt'd w/ 1	1/2 cmt'd w/ 190 sx HYS & 150 sx 4% Incor	sx 4% Incor						55% Eff.			
													Ş	130113010	36160 210 06
Malesco Energy	ē	Inactive	2350-2367	8 5/8	400	40	01		7.1565		8	904	400	/561/07/7	30-013-05150
Admin Unit #15	_			\$ 1/2	2350	100	7 7/8	1.32	5.7695		1588	2/2	ŝ		
TOWN TAIL P. COO ER! AD	T	T		-		,									
ואמר ווידים אינו ווידים	T														20,000
N. C.	Ē	P&A	2502-2508	7	598	75	9 3/4	1.32	3.9788		ğ	303	<u></u>	/561/07/7	30-013-05150
Actes Links				4 1/2	2525	200	6 1/4	1.32	9.7421		surface	280	677		
320 EEL & 3310 ERL (I)	T														
330105 2 20105	T														20 015 01740
	ē	Imagitive	2459-2493	8 5/8	573	70	01	1.32	7.1565		surface	-	74.5	4/1/195/	30-013-01/40
A design This # 21	†			4 1/2	2525	300	8	1.32	4.1891		88	1381	98 20		
Aries in Only 21	1														
1980 FEL & 1980 FOL (J)	T	1													
1	ē	Tooline .	8017-1767	8/8	757	350	9	1.32	7.1565		surface	surface	surface	8/23/1961	30-015-01/39
Br Amoco	$\top$		non-char	\$ 1/2	6378	320*	2 1/8	7.3 & 1.88	5.7695			1545			
23.10 FSI & 1650 FWI. (K)	T			*5 1/2 cmt'd w/ 1	1/2 cmf'd w/ 170 sx HYS & 150 sx 4% Incor	sx 4% Incor						55% Eff.			
							1					٩	315	1701/1957	30-015-01747
Melrose Energy	ö	Inactive	2420-2436	8/5/8	569	75	2	1.32	3		Surface	90	72.71	7,500	
Artesia Unit #22	1			4 1/2	2503	36 26	<b>∞</b>	1.32	4.1891		\$	1637			
1980 FSL & 1980 FWL (K)	T										1				
									1			200	970	0961/5//9	30-015-01734
HP Amoco	≅	Inactive	6226-6238	8/5/8	720	300	2	~∣.	7.1365		surrace	suriace	SELIEN	OLCOLOGICO.	
Francisca Abo Unit G #37	+-			5112	6351	320*	7.7/8	7.3 & 1.88	5.7695	555					
3310 FSL & 330 FWL (L)				*5 1/2 cmt'd w/ 1	1/2 cmt'd w/ 170 sx HYS & 150 sx 4% Incor	sx 4% Inco				01 ses					
	T				4.										
	1						•-								



Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole Size	CMT YLD	FT/FT3	Meas. TOC	Ø 100%	75%	Ø 50%	Date Drilled	API Number
	T	T													2000
	ē	Tanahira	2270_2278	-	611	25	83/4	1.32	6.6494		surface	Ξ	282	12/22/1956	30-015-01/46
Arteria I init #73	┰		200	4 1/2	2395	150	6 1/4	1.32	9.7421		\$	888	1431		
1980 FSL & 660 FWL (L)											T				
	П				100	950	5	133	7 1565		surface	surface	surface	12/19/1960	30-015-01728
Yates Drlg Co.	ē	Active	2852-2868	8,2/8	300	3 =	61/4	1.32	9.7421		surface	surface	surface		
Sinclair State #1	1			4 1/2	K7										
990 FSL & 400 FWL (M)	1														
	┱		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	8 5/8	252	8	92	1.32	7.1565		80	861	316	5/13/1956	30-015-01732
Meirose Energy	3	IIIICITAC	17772000	\$ 112	2356	100	8 5/8	1.32	4.1520		1808	1945	2082		
990 FSL & 330 FWL (M)															
								1	10201		22	[9]	291	12/25/1956	30-015-01742
Melrose Energy	Oil	Active	2454-2467	8 5/8	551	3	= •	1.32	1,222.1		3	2079	2218		
Artesia Unit #29				4 1/2	2494	3	۰		1.1001						
990 FSL & 1650 FWL (N)															
			0,30 00,0	0/20	546	5	SEE AT	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	¥		546	12/28/1956	30-015-01743
DeKalb Energy	ā	P&A	24/0-2312	8 3/8	7404	3 8							2494		
Artesian Unit #30				7,1,4	1										
990 FSL & 2310 FEL (O)	T	T													
	1	Inactive	2506-2556	8 5/8	559	8	01	1.32	7.1565		surface	surface	87	1/2/1957	30-015-01/44
McHase Cardy	十			4 1/2	2572	100	8	1.32	4.1891		2019	2157	9677		
990 FST & 990 FFT (P)															
									::3		•	7	ő	6/16/1982	30-015-24059
Межроите	sag.	Inactive	10590-10722	20	39	15	75	1.32	1.0413		٩	***	on mfore	\$661/\$1/5	
State BX Com #1	1			13 3/8	811	জু	17 1/2	1.32	1.4390		Surrace	Surince	ornface	2000	
660 FSL & 1980 FEL (O)				8 5/8	2713	1200	2	1.32	2021.7		3636	\$435	7244		
				5 1/2	10861	8	7.7/8	1.32	2,/653		2000				
					022	95.5	17 1/3	133	1 4390	Circ	surface		55	5/9/1997	30-015-29133
Amoco Production Co.	Gas	Inactive		13 3/8	338	8141	12 1/4	1.32	3,1917	Circ.	surface		surface		
351 Evelyn "35" State Com				93/0	10805	1330	7 7/8	1.32	5.7695		929	3208	5741		
1730 FNL & 660 FEL (H)	1			2,17	COOX										
7.0	T	184		8 5/8	824	250	SEE AT	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	M		824	6561/27/11	30-015-01/31
Chambers & Neuman	T						Ц								
660 FSI & 1980 FWI. (N)	T														
													760	1961/66/0	30.015-01741
Hondo Western Yates	Γ	D&A		8 5/8	769	350	SEE AT	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGKA	2		ŝ	1000	
State "A" #41															
2310 FSL & 2310 FEL (J)															
	_			,	983	¥	٩	133	3.5936		243	332	421	8/20/1961	30-015-01750
Melrose Energy	ਰ	Inactive	1077-5617	410	225	235	6 1/4	1.32	9.7421		648	1049	1451		
Artesia Unit #9	1	T		4 116	2000										
380 FNL & 2310 FEL (B)	1	7													

														ş	
Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole	CNT YLD	FT/FT3	Meas.	Ø 100%	75%	@ 50%	Drilled	API Number
														10001	30.015 31434
	ë	Active	383-4222	8 5/8	519	400	01	1.32	7.1565		surface	surface		3/3/2001	30-013-31464
Cista D #8	3			5112	4421	750	7.7/8	1.32	5.7695		surface	137			
430 FNL & 1650 FEL (B)															
						90	٤	1	7 1565	T	amface	surface		4/13/2001	30-015-31425
Marbob	Oil	Active	3954-4354	8 5/8	512	900	21,50	1.32	3092 3		antigoe .	surface			
State D #9				51/2	4464	2008	<u>*</u>	1:32	5.7035						
430 FNL & 330 FEL (A)															
							١	. 32	7 1566		enrface.	surface		2/19/2001	30-015-31423
Marbob	Oil	Active	3832-4233	8 5/8	SIS	8	2	1.32	2077.		surface	surface			
State D#7				5112	4399	840	<u>«</u>	1.32	3.70%						
430 FNL & 2310 FWL															
					· Š	8	9	133	7 3565		surface	surface		3/6/2001	30-015-31426
Marbob	iö	Active	4147-4509	8 5/8	200	900	21,6	35.1	3092.5		surface	ဇ္			
State D#17				5172	4599	38	%/,								
2185 FSL & 2310 FWL (K)															
			0367 0307	0/2/0	113	400	2	1.32	7.1565		surface	surface		6/18/2000	30-015-30977
Marbob	ō	Active	4010-4339	9 3/0	117	0501	7.7/8	2	5 7695		surface	surface			
State D#18				2172	4	OCO!		7,							
2310 SL & 990 FWL (L)															
							ODE AT	SEE ATTACHED PLICEING DIAGRAM	TICCING	DIAGRA	2			1/7/1957	30-015-01757
Welch	P&A			8 2/8	200	NI C	2							P&A12/19/61	
Mry-State #4															
990 FIVL & 2310 FWL.															
						95	CHEST A TIME	SEE ATTACHEN OF UCCINC DIAGRAM	UNICOIN	DIAGRA	2			1961/11/8	30-015-01730
Depco	P&A			8	473	95	A Gran								
Artesia Unit #12															
1650 FNL & 660 FWL (E)															
				17.1		July 1	SFE AT	SFF ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	7			9/9/2026	30-015-01729
Welch	P&A			ÇIK.										P&A 8/14/34	
State #1															
2310 FNL & 250 FWL (E)															
At an D 30 P Continu 26															
I-I I-S, N-LO-L, Seulon														9001/01/01	10/10/1008 30 015 30187
Melenes Erevery	į	Active	2394-2765	8 5/8	326	275	12 1/4	1.32	2.4219	Circ	surface		suriace	Ciac All strings	30-013-013-
Artesia Unit #83				4 1/2	3072	650	7.7/8	1.32	4.3881	Circ.	surface		SULINCE	C110: A11 9121	29
2630 FSI, & 1510 FWL (K)															
									1		3	1	14	277/1964	30-015-10073
Mack Energy	Oil	Active	2379-2486	8 5/8	430	5	2	1.32	27/20		710	1001	1684		
State 647 Ac 724 # 197				4 1/2	2648	200	5/70	1.72	7						
660 FINL & 1980 FEL (B)															
			2307 3007	0.70	749	350	٤	1.32	7,1565		surface	surface	surface	1961/2/01	30-015-05760
BP Amoco	ö	Inactive	6238-6252	8/2/8	748	320*	7.7/8	7.3 & 1.88	5.7695			1567			
Empire Abo Unit E #41				7/1 5	5 1/2 0400 5/15 0400 5/16 04 04 10000	1 av 4 % Inco						55% Eff.			
330 FNL & 330 FWL (D)				*3 1/2 cmf d w/ 1	/0 SX II 10 GC 10.	34 7 /v and									
				-											

West and Location	Type	Status	Perforations	Casing Size	Depth	Sacks	Size	CMT YLD	FT//FT3	TOC	Ø 100%	75%	%05 Ø	Drilled	API Number
Melrose Energy	ਰ	Inactive	2323-2350	8 5/8	019	25	9	1.32	7.1565		surface	2	256	4/26/1963	30-15-10080
Artesia Unit # 7				4 1/2	2364	901	90	1.32	4.1891		1811	1949	2088		
480 FNL & 330 FWL (D)															
1	į								0.00				١	20076	03110 310 01
Metrose Energy	3	Y & A	7001-7024	7.7	500	2 2	7 2/4	25.1	0 7/01		11702	310	21.5	1001/01/0	30-013-01/39
TOROCKII & KKO EUM (E)				4 112	1007	33	1	75.7	7.7421		\$	7/0			
מוודת ממודות הו										T					
Melrose Energy	ō	Inactive	2306-2685	8 5/8	SS	20	9	1.32	7.1565		122	240	358	5/27/1957	30-015-01761
Artesia Unit # 17				4 1/2	2722	300	8	1.32	4.1891		1063	1478	1893		
1980 FNL & 1980 FWL (F)															
R.B. Operating Co.	Ö	Inactive	2568-2609	8 5/8	422	20	9	1.32	7.1565		surface	8	186	9/1/1965	30-015-10543
Five J #2				\$ 1/2	2725	100	7.7/8	1.32	5.7695		<u>8</u>	2154	2344		
1980 FNL & 1980 FEL (G)		1													
Charles Charles	ä		1156 1760	0/30	445	32	٩	1 33	71566		1	3	ā	K/10/1057	(2015.0176)
Menose Energy	3	Active	0017-0007	0 2/0	3	S	١.	200	300	1	Suniace	Surince 1001	1	0/10/10/0	70/10-010-00
Artesia Unit #18	T			4 1/2	78/7	200	2	1.32	4.1891		80	2021	6777		
1980 FSL & 1980 FWL (K)	T	1													
Melrose Energy	ë	Inoctive	2526,7548	-	S.O.	75	0 7/8	133	37776		3,6	23	1	3/16/1957	30-015-01760
Artesia [Init #19			2000	410	2677	200	61/4	132	9.7421		3	748	1361		
1980 J'SL & 660 FWL (L)															
Melrose Energy	ē	<u>M</u>	2498-2609	8 5/8	550	20	2	27	7.1565	1	8/	8	¥ (	7/21/1956	30-015-01764
Artesia Unit #32	1	1		5 1/2	2498	001	»	1.32	5.4303	1	1/8/1	<u>\$</u>	2140		
990 FSL & 330 FWL (M)		1					1		T	1	T				
Melrose Energy	ō	Inactive	2555-2785	8 5/8	558	20	=	1.32	7.1565		98	202	322	12/26/1956	30-015-01758
Artesia Unit # 33	1			5112	2693	S	7 7/8	1.32	5.7695		2198	3322	2445		
330 FSL & 1631 FWL (N)															
BP Among	ۇ	Inactive	10 780 787	13.3/8	240	993	17.10	13	1 4390	Surf	surface		surface	4/18/1996	30-015-28760
thy State 36 C #1				8.5/8	2630	5201	121/4	Τ	2,4219	957	surface		8		
1163 FSL & 1647 FWL/N)		T		-	0860	904	77/8	Γ	14.0810	9076	2365		683		
	1			51/2	3410	750	8/19	1.32	25.2246		†				
			8	set @	9474 to 10342			Г							
											,				
Marbob	Oil	Active	4011-4276 8	8 5/8	516	400	01	1.32	7.1565		$\dashv$	surface		1/15/2001	30-015-31165
State D #10				2/1 5	4490	1150	7 7/8	1.32	5.7695		surface	surface			
330 FNL & 990 FWL (D)									1		1	1	1		
	1	1							1	1	1		1		
Marbob	ē	No					1		1	1	1		1		30-015-30978
State D #25	1	Comp					1		1	1	1	1	1		
330 FNL & 2210 FWL (C)	1	1	1							1		1			
	-							_							!

Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of Sacks	Hole	CMT YLD	FT/FT3	Meas. TOC	%001 Ø	75%	%0S Ø	Date Drilled	API Number
					032	Ş	CER AT	SEP ATTACHED PLUGGING DIAGRAM	ICCING	DIAGRA				10/22/1961	30-015-02153
Hughes	D&A			8 5/8	8	257	1								
State A #43															
330 FNL & 1650 FWL (C)															
				9.5.		386	17 1/2	1 33	1 4390	Circ.	surface			2001	30-015-31185
Dreyfus	Gas	Active	7990-8000	13.5/8	1950	305	12 1/4	1.32	3.1917	Circ.	surface				
Geronimo "36" State #1				9.2/8	7007	077	7.78	133	\$ 7695		surface	1982			
1060 FNL & 1980 FWL				5 1/2	10892	1200	0,,,	***	2						
						1	CEE AT	SEE ATTACHED PLICGING DIAGRAM	TICCING	DIAGRA	٦				30-015-01765
Donnelly Drilling	P&A			8 5/8	200	2									
Sinclair State B #3															
660 FSL & 1980 FEL ( O)															
						Ş	5.	1, 2,	7300		surface	surface		4/15/1982	30-015-22543
BP Amoco	IIO	P&A		13 3/8	582	3	7/1/1	75:1	200		200	omeface			
Empire Abo Unit # 19				8/5/8	2906	1400	12 1/4	1.32	2.4219	1	Surince	Sant inc			
2280 FNL & 660 FEL ( H)				5 1/2	11200	2300	77/8	1.32	2./093	1	Surface	State			
														8/16/1965	30-015-10544
Tohnston	P&A			8 5/8	439	50	SEE AT	SEE ATTACHED PLUGGING DIAGRAM	CCCINC	DIAGKA				2010	
Live #4															
ACO ENT & AGO EET /H										1					
IOSO FINE OF OOM FEET (II)										1					
T 10 C D 2G E Cartion										1					
100, N-2012, Section 1												ļ	,	701/24/01	20.015.01767
Votes Emeral	Ö	Active	2581-2652	8 5/8	710	200	01	1.32	7.1565		surface	surface	Surince	NC41117101	
Linkon Collier #1				5 1/2	3410	750	7 7/8	1.32	5.7695	Circ	surface		3		
130 FNI & 1631 FWI (C)										1					
T-18-S, R-28-E, Section 2															
						ļ	١	1 23	7 1565		surface	87	205	5/22/1957	30-015-01783
Melrose Energy	Oil	Inactive	2460-2686	8 5/8	559	2	27.0	1.32	2077.3	1460	1938		2319	Well was per	Well was perfed @ 1820 and sqzd
Artesia Unit #34				5.172	2700	33	8//	1.32	3.7033					w/ 450 sxs cmt	Ħ
330 FNL & 2310 FEL (B)										T					
				9	033	Ş	15	1 37	7 1565		172	267	361	2/27/1957	30-015-01785
Melrose Energy	Ö	Active	2476-2510	8 2/8	0550	P S	~	1.32	5 4303		2068	2194	2319		
Artesia Unit #35				2/15	0/67	2	٩								
330 FNL & 1650 FWL (C)															200 00 000
	100	Ymanitage	7470.7437	8 5/8	550	20	01	1.32	7.1565		78	<u>8</u>	34	10/24/1956	30-015-01/82
Meirose Energy	3	TIESCH AC	2012 0717	7	2492	8	8	1.32	12.2182		879	1282	80		
Artesia Omi #30										1					
330 FINE & 330 FWE (D)															
T-18-S, R-28-E, Section 3															
			3000 5100	0/3 6	000	250	12 1/4	1.32	2.4219	Cjr.	surface		surface	3/24/1998	30-015-30002
Metrose Energy	ö	Active	0667-7167	0 3/0	3003	85	7 7/8	1.32	4.3881	Circ.	surface		surface		
Artesia Unit #/8															
1050 FNL & 350 FEL (ft)															
											,				

Oli   Marche   2402-3415   81846   5532   591   100   1312   51450   1315   1316   2322   1314   2322   1314   1317   1315   1315   1316   1317   1	EL (A)   Active   2403-2415   8.58   552   50   10   1.12   5.1361	Well and Location Type Status	tus Perforations	ons Casing Size	Depth	No. of	Hole	CMT YLD	FT/FT3	Meas.	%001 Ø	75%	205 @	Date Drilled	API Number
Oli   Active   2402-3415   8.58   8.59   89   112   124.01   124	EL (A)   Cold   Active   2403-3415   8.5/8   55.7   50.0   10   11.2   2430   2430-3415   8.5/8   51.2   2457   60.0   8   11.3.2   2430   31.2   2430   3		닉	_		Daving					6	ĕ	316	8/4/1956	30-015-01800
EL. (4)         OI         Inserting         5 1/2         2457         60         8         1.12         5469         100         1.12         5469         100         1.12         5469         100         1.12         5469         100         1.12         5469         100         11         1.22         5469         100         1.12         5469         100         1.12         5469         100         1.12         5469         100         1.12         5469         100         100         100         11         1.12         5469         100         110         100         100         100         11         1.12         5469         100         100         100         100         11         1.12         5469         100         <	EL (A)   Inactive   2110-2255   7   510   100   11   1.32   5.430     FML (D)   Inactive   2115-2400   8 5.68   5.21   2552   100   6 144   1.32   5.430     FWL (E)   Oil Inactive   2115-2400   8 5.68   5.21   2552   100   6 144   1.32   5.430     FWL (E)   Oil Inactive   2115-2400   8 5.68   5.21   2550   100   6 144   1.32   5.430     FWL (E)   Oil Inactive   2115-2400   8 5.68   5.70   100   11   1.32   5.430     FWL (E)   Oil Inactive   2250-2420   4 172   2302   150   6 144   1.32   5.7065     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 132   0 7.421     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 104     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 104     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 104     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 104   0 104     FWL (E)   Oil Inactive   2250-2420   0 104   0 104   0 104   0 104   0 104   0 104     FWL (E)   Oil Inactive   2250-2420   8 5.68   5.69   1 120   1.32   2.5239     FWL (E)   Oil Inactive   2250-2420   0 104   0 10	┝	L	8	552	20	_    -	1.32	30		000	2	250		
Fig. (b)   Col.   Invester   Col.	FEL. (b) 010 Inactive 2310-2325	十	1	2	2457	99	<b>®</b>	1.32	5.4303		202/	4512	7477		
FML (D)         OII         Inscring (D)         110 (D)         11 (D)         1.32 (A)         1.44 (D)         1.88 (D)         1.99 (A)	FEL.(B)	FEL (A)								1					
Oli   Inactive   2119-2235   A   7   2350   100   614   1.32   5.4545   1.066   1.389   1.705	FEL. (b)   Fig. (c)   Inactive   2310-2325   77   510   100   111   132   2.5459     FEL. (b)   Oil   Inactive   2315-2400   8.5/8   5.21   500   11   1.32   2.5429     FWI. (C)   Oil   Inactive   2315-245   8.1/4   5.20   1.0/4.   1.2   1.3   1.3   1.3   1.3     FWI. (C)   Oil   Inactive   2315-245   8.1/4   5.20   1.0/4.   1.2   1.3   1.3   1.3   1.3     FWI. (D)   Oil   Inactive   2320-2420   3.1/4   3.0   3.0   1.0   1.3   1.3   1.3   1.3     FWI. (E)   Oil   Inactive   2320-2420   0.04c.   0.04c									1		8	SAS	1/78/1956	30-015-02543
FWL (D)   Imagive   2152-200   8.58   521   100   6.14   1.32   9.421   1000   1255   10000   10000   10000   10000   10000   10000   10000	FEL.(6)  FEL.(6)  Oil Inactive 2115-2400 8 5.88 5.12 100 6 144 13.2 9.7421  FWI, (C)  Oil Inactive 212-2400 8 5.88 5.10 10.2 11.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	1	L	L	510	100	=	1.32	2.5455	1	**	077	305	200	
FWL(C)   Coll   Imacire   215-2400   8.58   521   530   11   1.32   5.491   774, DE   744, DE	FEL.(B)  Oil Inactive 2315.2400 8 5.8 5.21 5.0 11 1.12 3.9221  FWI_C)  Oil Inactive 2115.245 10 1/2 370 Unit. 12 1/4 1.12 5.4301  FWI_C)  Oil Inactive 2282.2352 8 1/4 5.07 50 10 1.13 5.7385  FWI_C)  Oil Inactive 2282.2355 Unit. 230.2 100 8 1.32 5.7385  FWI_C)  Oil Inactive 2282.2356 Unit. 230.2 100 6 1/4 1.13 5.7385  FWI_C)  Oil Inactive 2282.2356 Unit. 230.2 100 6 1/4 1.13 5.7385  FWI_C)  Oil Inactive 2392.2408 8 5/8 330.530 Unit. 1.32 5.7385  FWI_C)  Oil Inactive 2392.2408 8 5/8 330.530 Unit. 1.32 5.4303  FWI_C)  Oil Inactive 2392.2408 8 5/8 330.530 Unit. 1.32 5.4303  FWI_C)  Oil Active 2370.2419 8 5/8 330.530 Unit. 1.32 5.4303  FWI_C)  FWI_C)  Oil Active 2370.2408 8 5/8 330.530 Unit. 1.32 5.4303  FWI_C)  F	-	L	4	2352	001	61/4	1.32	9.7421	1	900	1388	Î		
FWL (C)   Insertive   215-2400   8.58   8.21   50   11   11.2   5.401   1777   1912   2046   1777   2046	PML (C)	FEI. (B)									1				
FWL (C)   Inactive   2315-2400   8.58   521   526   546	Oil   Inactive   2315-3400   8 558   521   55 4001   54001   5100   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112   54401   5112									1		,	1	11/1/1066	30.015.00542
FWI_C C    Cut   Innective   2313-2345   10 12   310   1046,   10 14   1.32   4.6004   FWALUE	FWI_C)  OII [nactive 2131-2345 10 1/2 570 Unk. 12 1/4 1.22 5.4303  FWI_C)  OII [nactive 2131-2345 10 1/2 570 Unk. 12 1/4 1.22 5.4303  FWI_C)  OII [nactive 2152-2252 8 1/4 570 0 1/2 1.32 5.7385  SI_UD)  OII [nactive 2282-2356 8 5/8 507 50 1/2 1.32 5.7385  FWI_C)  OII [nactive 2282-2356 8 5/8 507 50 1/2 1.32 5.7385  FWI_C)  OII [nactive 2282-2356 8 5/8 507 50 1/2 1.32 5.7485  FWI_C)  OII [nactive 2282-2356 Unk. Unk. Unk. Unk. 1.32 5.4303  FWI_C)  OII [nactive 2350-2400 1/0 305 Unk. 1.32 5.4303  FWI_C)  OII [nactive 2350-2400 8 5/8 5/8 5/8 5/8 5/8 1/2 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 1.32 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FWI_C)  OII [nactive 2350-2408 8 5/8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FEL(F)  OII [nactive 2370-2408 8 5/8 5/8 5/8 5/8 5/8 1.32 5.4303  FEL(F)  OII [nactive 2370-2408 8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8	T	1	**	521	50	11	1.32	3.9321		791	3.20	2	11/11/11	30-01-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-
FPU, (C)  Oli Innecire 213-245 10 1/2 370 Uole, 12 14 6894 FVALUE  FWL (C)  Oli Innecire 215-2252 8 1/4 550 Uole, 12 14 6894 FVALUE  FWL (D)  Oli Innecire 2252-2252 8 1/4 550 Uole, 12 12 5.7385 FVALUE  FWL (D)  Oli Innecire 2252-2252 8 1/4 50 FVALUE  FWL (E)  Oli Innecire 2252-2252 8 1/4 50 FVALUE  FWL (E)  Oli Innecire 2252-2252 8 1/4 50 FVALUE  FWL (E)  Oli Innecire 2252-2252 Uole, 12 200 FVALUE  FWL (E)  Oli Innecire 2252-2252 Uole, 10 FVALUE  FWL (F)  Oli Innecire 2252-2252 Uole, 10 FVALUE  FWALUE  FWALU	FWI_(C) Oil Inactive 2313-2345 10 1/2 370 Unik. 12 1/4 1.32 4-6034  FWI_(D) Oil Inactive 2322-2252 8 1/4 510 2 2360 Unik. 10 1.32 5.7385  WI_(D) Oil Inactive 2282-2256 8 1/4 5112 2302 Unik. 10 1.32 7.7385  SI_(D) Oil Inactive 2282-2256 Unik. 2302 150 6 1/4 1.32 7.7385  FWI_(E) Oil Inactive 2380-2400 4 1/2 2302 150 6 1/4 1.32 7.7485  Oil Inactive 2380-2400 10 305 Unik. 1.32 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 330-530 Unik. 8 1.32 5.4303  FWI_(E) Oil Inactive 2350-2408 8 5/8 350-5450 150 8 1.32 5.4303  FEI_(F) Oil Inactive 2350-2408 8 5/8 5/8 5/90 150 8 1.32 5.4303  FEI_(F) Oil Inactive 2350-2485 8 5/8 5/90 100 8 1.32 5.4303  FEI_(F) Oil Inactive 2350-2485 8 5/8 5/90 100 8 1.32 5.4303		╄	5	2315	75	8	1.32	5.4303		1111	1912	957		
FWL, C	PWL (C)   Inactive   211-2345   10 1/2   370   Unik.   12 14   1.32   4.6034	Con (C)													
Oil   Inactive   213-2465   10 1/2   230   Uak.   12 14   1.12   48044   FVALUE    F	Oil   Inactive   2313-2345   10 1/2   370   Unk.   10 1/13   4,6034	(A)													001.0.10.00
FWL (C)   Insertive   2152-2322   8 144   530   Uok.   10   132   57385   WALUER	PWL (C)   Imactive   2152-232   8 144   520   Unk.   10   132   5.7385	+	1	٤	170	Cpk.	12 1/4	1.32	4.6034		#VALUE!		*VALUE	- 1	30-015-01/99
FWL (C)   Coll   Inactive   2152-2222   8 144   Str   2360   Uok.   Coll   Inactive   2152-2222   8 144   Str   2360   100   R   1,32   5,786   1,38   2,33   318   318   318   319   342   318   31	PWL (C)   FWL (C)   5 3/16   2260   Unk.   8   1.32   4/9413	ナ	1	1	065	Unk	2	1.32	5.7385		#VALUE!		#VALUE		
Nat. (C)   Inactive   2152-2352   8 1/4   507   507   100   8 1.32   1.23   8.5   1.36   1.35   1.24   1.36   1.35   1.24   1.36   1.	FWL (C)   Inactive   2152-2252   8 1/4   507   50   10   1.32   5.7385   1.22182   1			9 I	09/1	Link	∞	1.32	4.9413		"VALUE!		#VALUE		
Oil   Inactive   2152-2256   8 144   507   50   10   137   5.7385   128   223   1346   1346   1346   132   12.2182   1359   942   1346   134	Oil   Inactive   2152-2252   8 1/4   507   50   10   1.32   5.7385     W.L. (D)	OFWL (C)													
WL. (D)         Oil Insertive         2122-222         77         2192         100         8         1,32         1,135         539         942         1346           WL. (D)         Insertive         2282-2326         8 5.6         307         30         10.2         1,126         5.166         35         133         271           Sit. (D)         Insertive         2280-2420         4 1/2         2392         150         6 144         1,32         5,7685         2148         2195         2341           FWI. (E)         WTW         4 1/2         2392         150         6 144         1,32         5,7421         1510         373         1338           FWI. (E)         WTW         4 1/2         2392         150         6 144         1,32         5,7421         1510         373         1338           FWI. (E)         WTW         Coli Insertive         2380-2420         Unit.         Unit.         1,32         5,7421         1510         373         1,338           FEL. (F)         Insertive         2390-2400         10         305         Unit.         1,32         5,430         1199         1512         1520           FEL. (F)         Insertive         <	WL (E)         Oil Inactive         2132-2232         7         2132         100         8         1,32         1,2185           WL (D)         Oil Inactive         2282-2326         85/8         507         507         10         1,32         7,1865           SU (D)         Oil Inactive         2280-2420         4 1/2         2302         150         6 1/4         1,32         5,7665           FWL (E)         Oil Inactive         2282-2326         Unk         Unk         1,32         9,7421           FWL (E)         Oil Inactive         2370-2410         8 5/8         310-330         Unk         1,32         8,743           FWL (E)         Oil Inactive         2370-2410         8 5/8         310-330         Unk         1,32         4,132         5,130           FEL (F)         Oil Inactive         2370-2410         8 5/8         36-35         Unk         1,32         4,130           FEL (F)         Oil Inactive         2370-2408         8 5/8         36-35         1/3         8 1,32         2,430           FEL (G)         Oil Active         2272-2468         8 5/8         359         75         10         1,32         1,1865           FEL (H)         Oil Act	7	4	ľ	203	9	2	1.32	5.7385		1.38	223	318	4/16/1941	30-015-01//0
WL. (D)         Oil Inactive (2392-2326)         8.5/8 (17.6)         507 (1.2)         1.12 (1.16.6)         1.52 (1.16.6)         1.5 (1.	WL (D)         Oil Inactive         2282-2326         8 5/8         507         50         10         1.32         7.1865           SL (D)         Oil Inactive         2280-2420         4 1/2         2302         150         6 1/4         1.32         5.7665           FWL (E)         WIW         2280-2420         4 1/2         2302         150         6 1/4         1.32         9.7421           FWL (E)         WIW         2280-2420         10         305         Unk         1.32         9.7421           FWL (E)         Oil Inactive         2282-2326         Unk         Unk         1.32         9.7421           FWL (E)         Oil Inactive         2370-2409         8 5/8         330-530         Unk         1.32         24303           FWL (F)         Oil Inactive         2370-2408         8 5/8         330-530         Unk         1.32         24303           FEL (F)         Oil Inactive         2370-2408         8 5/8         330-530         Unk         1.32         24303           FEL (F)         Oil Inactive         2372-2468         8 5/8         550         75         12         1.32         7.1565           FEL (H)         Oil Active         2272-2465 <td>7</td> <td>4</td> <td>1</td> <td>2153</td> <td>8</td> <td>~</td> <td>1.32</td> <td>12.2182</td> <td></td> <td>539</td> <td>942</td> <td>1346</td> <td></td> <td></td>	7	4	1	2153	8	~	1.32	12.2182		539	942	1346		
N. N. D.   Did   Inactive   2282-2236   8 5.8   5.07   5.0   1.0   1.1.2   1.1565   3.5   1.53   2.243   2.2	WIL (D)   Oil Inactive   2282-2326   8 5/8   507   50   10   1.32   7.1865		+												
Si_Ub)	St. (b)  Oti Inactive 2282-2326 8 5/8 507 50 10 1.32 7.1565  St. (b)  Oti Inactive 2280-2420 4 1/2 2302 150 6 114 1.32 5.7695  FWL (E)  Oti Inactive 2282-2326 Unk.  Oti Inactive 2392-2326 Unk.  Oti Inactive 2392-2400 10 305 Unk.  FWL (E)  Oti Inactive 230-2400 8 5/8 330-530 Unk.  FWL (E)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FWL (E)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  Oti Active 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oti Active 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oti Active 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2418 5/8 5/8 330-530 Unk.  FEL (F)  Oti Inactive 2370-2418 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/8 5/	FWL (D)													
SL(D)   Inactive   2280-2420   S 1/2   2338   25   778   1.32   57685   2148   2195   2243     SL(D)   MrW   2280-2420   41/2   2302   150   61/4   1.32   97421   1510   373   1338     FWL (E)   MrW   2282-2326   Unk.   Unk.   Unk.   Unk.   Coll   Inactive   2392-2326   Unk.   Unk.   Coll   Inactive   2392-2408   S 1/2   2459   176	SL(D)   Inactive   2280-2420   51/2   2338   25   77/8   1.32   5.7695	+	4	ľ	507	95	9	1.32	7.1565		35	153	12	7/1/1955	30-015-02547
FWL (E)	Section   Sect	+	4	-	2338	25	7.7/8	1.32	5.7695		2148	2195	2243		
FWI, (E)  Oil Inactive 2280-2420 4 1/2 2302 150 6 1/4 1.32 9.7421 1510 373 1338  FWI, (E)  Oil Inactive 2282-2326 Unik. Unik. Unik. Cill Inactive 2390-2400 10 305 Unik. Cill Inactive 2390-2400 10 305 Unik. Cill Inactive 2370-2419 8 5/8 336-330 Unik. Cill Inactive 2370-2419 8 5/8 349-3 1/5 8 1.32 2.6329 189 2.53 3.20  FWI, (F)  Oil Inactive 2370-2419 8 5/8 349-3 1/5 8 1.32 2.6329 189 2.53 3.20  FWI, (F)  Oil Inactive 2370-2419 8 5/8 450 75 12 1.32 2.6329 189 2.53 3.20  FWI, (F)  Oil Active 2272-2485 8 5/8 5/8 5/9 150 8 1.32 3.433 178 178 1962 2.142  FEIL (H)  FEIL (H)  Oil Active 2272-2485 8 5/8 5/9 5/9 150 8 1.32 3.433 1783 1962 2.142  FEIL (H)	FWL (E)  Oil Inactive 2280-2420 41/2 2302 150 61/4 1.32 9.7421  FWL (E)  Oil Inactive 2282-2326 Unk.  Oil Inactive 2390-2400 10 305 Unk.  FEL (F)  Oil Inactive 2370-2408 85/8 330-530 Unk.  FWL (E)  Oil Inactive 2372-2408 85/8 330-530 Unk.  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  FEL (F)  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  FEL (F)  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  FEL (F)  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)  FEL (F)  FEL (F)  FEL (F)  FEL (F)  FEL (F)  Oil Inactive 2372-2408 85/8 350-530 Unk.  FEL (F)	14, 192	+												
FWL (E)         Oil Inactive 2280-2436         4 1/2         230.2         150         6 1/4         1.32         9,742, 1510         373         1438           FWL (E)         WIW         WIM         Link         Unk         Link         1.32         9,742, 1510         373         1438         1438           FWL (E)         Oil Inactive 2282-2336         Unk         Unk         Coll Inactive 2390-2400         10         305         Unk         Coll Inactive 2390-2400         10         305         Unk         Coll Inactive 2370-2419         8 5/8         310-530         Unk         Coll Inactive 2370-2419         8 5/8         350-530         1/5 <td>FWL (E)         Oil Inactive 2280-2420         4 1/2         2302         150         6 1/4         1.32         9,421           FWL (E)         W/W         W/W         10         10         10         1.32         9,7421           FWL (E)         Oil Inactive 2282-2326         Unk         Unk         Unk         10<td>rot (D)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>20 015 01 706</td></td>	FWL (E)         Oil Inactive 2280-2420         4 1/2         2302         150         6 1/4         1.32         9,421           FWL (E)         W/W         W/W         10         10         10         1.32         9,7421           FWL (E)         Oil Inactive 2282-2326         Unk         Unk         Unk         10 <td>rot (D)</td> <td></td> <td>20 015 01 706</td>	rot (D)													20 015 01 706
FWL (E)         WIW         Unk.         Unk.         1.32         PRICE           OII Inactive 2390-2400         10         305         Unk.         PRICE         1199         1512         152           FEL (F)         OII Inactive 2370-2419         8 5/8         330-530         Unk.         PRICE         PRICE<	FWL (E)	+	┸	4	2302	150	6 1/4	1.32	9.7421	1510	373		1338	0661/01/71	30-013-01/20
FWL (E)  Oil Inactive 2282.2326 Unit.  FWL(E)  Oil Inactive 2390.2400 10 305 Unit.  FEL (F)  Oil Active 2370.2419 8 5/8 330.530 Unit.  FWL(F)  Oil Active 2152.2408 8 5/8 450 75 12 132 2.6329 1897 2104  FEL (F)  Oil Active 2152.2408 8 5/8 450 75 10 1.32 4.1891 1690 1897 2104  FEL (F)  FEL (F)  Oil Active 2152.2408 8 5/8 5/8 5/8 5/8 1/8 1.32 5.6329 1899 15/8 104  FEL (F)	FWL (E)  Oil Inactive 2282-2326 Unk.  Oil Inactive 2390-2400 10 305 Unk.  FEL (F)  Oil Active 2370-2419 8 5/8 330-530 Unk.  FEL (F)  Oil Active 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2272-2485 8 5/8 550 75 10 1.32  FEL (H)  FEL (H)  Oil Active 2272-2485 8 5/8 550 15 13 132  FEL (H)		┺					1.32						Term dim/ev	showed for @
FWI_L(E) Oil Inactive 2282-2326 Unk. Oil Inactive 2390-2400 10 305 Unk. Oil Active 2370-2419 8 5/8 330-530 Unk. Oil Inactive 2152-2408 8 5/8 450 75 12 1.32 2.6329 Oil Active 2122-2485 8 5/8 5/8 5/9 150 8 1.32 2.6329 Oil Active 2272-2485 8 5/8 5/9 100 8 1.32 5/303 1785 FEL (F) FEL (F) Oil Active 2152-2485 8 5/8 5/9 5/9 150 8 1.32 5/303 1785 FEL (H)	FWL (E) Oil Inactive 2282-2326 Unk.  Oil Inactive 2390-2400 10 305 Unk.  Oil Inactive 2370-2419 8 5/8 330-530 Unk.  FWL (F) Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G) Oil Active 2172-2488 8 5/8 550 75 10 1.32  FEL (H) FEL (H)  Oil Active 2272-2485 8 5/8 550 150 8 1.32  FEL (H)													Can me dina 1	
FWL (E)         Oil Inactive         2282-2336         Unit.         Unit.         Oil Lanctive         2390-2400         10         305         Unit.         Oil Lanctive         C330-2400         10         305         Unit.         Oil Lanctive         C330-2400         10         305         Unit.         Oil Lanctive         C330-2419         8 5/8         330-530         Unit.         R <t< td=""><td>FWL (E)  Oil Inactive 2282-2326 Unk.  Oil Inactive 2390-2400 10 305 Unk.  Oil Active 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2172-2485 8 5/8 550 15 10 1.32  FEL (H)  FEL (H)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	FWL (E)  Oil Inactive 2282-2326 Unk.  Oil Inactive 2390-2400 10 305 Unk.  Oil Active 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2172-2485 8 5/8 550 15 10 1.32  FEL (H)  FEL (H)														
FWL (E)         Oil Inactive         2382-23.56         Unit.         Onl.         Onl	FWL (E)  Oil Inactive 2282-2326 Unk.  FWL (E)  Oil Inactive 2390-2400 10 305 Unk.  Oil Active 2370-2419 8 5/8 330-330 Unk.  FWL (F)  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2272-2485 8 5/8 550 150 1.32  FEL (H)  FEL (H)			П										6/15/1928	30-015-01790
FWL(E)  Oil Inactive 2390-2400 10 305 Unk.  Oil Active 2370-2408 8 5/8 330-530 Unk.  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32 2.6329 1897 2104  Oil Active 2172-2485 8 5/8 550 150 8 1.32 4.1891 1690 1897 2104  FEL(f)  FEL(f)  FEL(f)  FEL(f)  FEL(f)  FEL(f)	FWL (E)  Oil Inactive 2390-2400 10 305 Unk.  FEL (F)  Oil Active 2370-2419 8 5/8 330-330 Unk.  FWL (F)  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2272-2485 8 5/8 550 75 10 1.32  FEL (H)  FEL (H)		Ц	7		Ä									
FWL (E)  Oil Inactive 2390-2400 10 305 Unk.  FEL (F)  Oil Active 2370-2419 8 5/8 330-530 Unk.  Oil Active 2152-2408 8 5/8 450 75 12 1.32 2.6329 189 2.55 3.70  Oil Active 2272-2485 8 5/8 5/1/2 2519 150 8 1.32 7.1565 surface 19 196  FEL (H)  FEL (H)  FEL (H)  FEL (H)	FWL (E)  Oil Inactive 2390-2400 10 305 Unk.  JFEL (F)  Oil Active 2370-2419 8 5/8 330-330 Unk.  FWL (F)  Oil Inactive 2152-2408 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2272-2485 8 5/8 550 75 10 1.32  FEL (H)  FEL (H)														
Oil Inactive   2390-2400   10   305   Unk.	FEL (F)   Inactive   2390-2400   10   305   Unk.	FWL(E)	1												
FEL (F)   Timetive   2370-2400   8 1/4   518   Unik.	FEL (F)		1	1	305	Link								1927	30-015-01775
FEL (F)   Active   2370-2419   8 5/8   330-530   Unk.   R   1.32   5.4303   1199   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1512   1826   1	FEL (F)  Oil Active 2370-2419 8 5/8 330-530 Unk.  FWL (F)  Oil Inactive 2152-2468 8 5/8 450 75 12 1.32  FEL (G)  Oil Active 2272-2485 8 5/8 550 75 10 1.32  FEL (H)	5	4	ľ	818	Uek									
Oil         Active         2370-2419         8 5/8         330-530         Unk.         8         1.12         5.4303         1199         1512         1826           Oil         Inactive         2152-2408         8 5/8         450         75         12         1.32         2.6329         189         255         370           Oil         Active         2152-2408         8 5/8         450         75         12         1.32         4.1891         1690         1897         2104           Oil         Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         1962         2142           Oil         Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1783         1962         2142	Oil         Active         2370-2419         8 5/8         330-530         Unk.         8         1.32           Oil         Inactive         2152-2408         8 5/8         450         75         12         1.32           Oil         Active         2272-2485         8 5/8         550         75         10         1.32           Oil         Active         2272-2485         8 5/8         550         75         10         1.32           S 1/2         2500         10         8         1.32	0 551 (5)	  -												
Oil Active         2370-2419         8 5/8         330-530         Unk.         8         1.12         5.4303         1199         1512         1826           Oil Inactive         2152-2408         8 5/8         450         75         12         1.32         2.6329         189         255         370           Oil Active         2152-2408         8 5/8         450         75         12         1.32         4.1891         1690         1897         2104           Oil Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         196           Oil Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1783         1962         2142	Oil         Active         2370-2419         8 5/8         330-530         Unk.         8         1.32           Oil         Inactive         2152-2408         8 5/8         450         75         12         1.32           Oil         Active         2272-2485         8 5/8         550         75         10         1.32           Oil         Active         2272-2485         8 5/8         550         75         10         1.32           Active         2272-2485         8 5/8         550         75         10         1.32           Active         2272-2485         8 5/8         550         75         10         1.32													0720/1066	30.015.00541
Oil         Lactive         2152-2408         8 5/8         450         75         12         1.32         2.6329         189         255         320           Oil         Active         2272-2485         8 5/8         450         75         12         1.32         2.6329         189         255         320           Oil         Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         196           Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1783         1962         2142	Oil Inactive     2152-2408     8 5/8     450     75     12     1.32       Oil Active     2272-2485     8 5/8     550     75     10     1.32       Oil Active     2272-2485     8 5/8     550     75     10     1.32       Oil Active     2272-2485     8 5/8     550     75     10     1.32	╁	1	8	330-530	Unk.					901	1517	1876	8 5/8 milled s	posited when pu
Oil Inactive         2152-2408         8 5/8         450         75         12         1.32         2.6329         189         255         320         11/9/1956           Oil Active         2152-2408         8 5/8         450         75         12         1.32         4.1891         1690         1897         2104           Oil Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         196         6/8/1956           Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1783         1962         2142	Oil Inactive         2152-2408         8 5/8         450         75         12         1.32           Oil Active         2272-2485         8 5/8         550         75         10         1.32           Oil Active         2272-2485         8 5/8         550         75         10         1.32           5 1/2         2500         100         8         1.32			5 1/2	2453	175	<b>∞</b>	1.32	5.4303		SET OF	7161	1950		
Oil Inactive         2152-2408         8 5/8         450         75         12         1.32         2.6329         189         255         320         11/9/1956           Oil Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         150         6/8/1956           Oil Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1 783         1962         2142	Oil Inactive         2152-2408         8 5/8         450         75         12         1.32           Oil Active         2272-2485         8 5/8         550         75         10         1.32           5 1/2         2500         10         8         1.32	7 FWL (F)													
Oil Inactive         2132-2406         0.510         T.32         4.1891         1.690         1897         2104           Oil Active         2272-2485         8.5/8         5.50         75         10         1.32         7.1565         surface         19         196         6/8/1956           Active         2272-2485         8.5/8         5.50         75         10         1.32         5.4303         1.783         1962         2142	Oil Inactive         2132-2406         6 370         4 1/2         2519         150         8         1.32           Oil Active         2272-2485         8 5/8         550         75         10         1.32           5 1/2         2500         100         8         1.32	7	4	ľ	450	7,	5	1.32	2.6329		189	255	320	11/9/1956	30-015-02545
Oil Active 2272-2485 8 5/8 550 75 10 1.32 7.1565 starface 19 196 6/8/1956 51/2 2500 100 8 1.32 5.4303 1783 1962 2142	Oil Active 2272-2485 8 5/8 550 75 10 1.32 5 1/2 2500 100 8 1.32	3	4		2519	150	· ∞	1.32	4.1891		1690	1897	2104		
Oil         Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         156         6/8/1956           Active         2272-2485         8 5/8         550         75         10         1.32         5.4303         1783         1962         2142	Oil         Active         2272-2485         8 5/8         550         75         10         1.32           5 1/2         2500         100         8         1.32	()	1												
Oil         Active         2272-2485         8 5/8         550         75         10         1.32         7.1565         surface         19         136         6/8/1930           5 1/2         2500         100         8         1.32         5.4303         1783         1962         2142	Oil         Active         2272-2485         8 5/8         550         75         10         1.32           5 1/2         2500         100         8         1.32	(0) THE (0)	+												000000000000000000000000000000000000000
5 1/2 2500 100 8 1.32 5.4303 1783 1902	51/2 2500 100 8 1.32	十	4	-	550	75	01	1.32	7.1565		surface	2	8	0001/8/0	30-013-01/02
			1_	2	2500	001	∞	1.32	5.4303		1/83	7 <u>9</u> 2	7617		
		FEI. (H)													
											٦				

Well and Location	Type	Status	Perforations	Casing Size	Depth	No. of	Hole	CMT YLD	FT/FT3	Meas. TOC	Ø 100%	75%	%0S @	Date Drilled	API Number
						owner of		[	7 1566		٦	155	273	12/30/1955	30-015-01787
Melrose Energy	Oil	Active	2190-2525	8 5/8	509	2	3	1.32	COC 1.		1	1314	1618		
Artesia Unit #52				7	2424	3	<u>_</u>	1.32	12.2102						
1650 FSI & 990 FEL (I)															
					is	9	٤	1 33	7 1565		611	237	355	4/1/1956	30-015-07880
Metrose Energy	Ö	Inactive	2327-2438	8 2/8	160	8 8		132	5 4303		1787	986	2146		
Artesia Unit #53				5172	4067	SI.	•	75.1							
1650 FSI & 1650 FEL (J)				T											
			2347 2340	0.174	515	9	9	1.32	5.7385		156	251	346	8/11/1955	30-015-01801
Melrose Energy	3	Active	7,747-742	21.5	2455	8	77/8	1.32	5.7695		2074	2169	2265		
Artesia Unit #54		$\int$		2,175	CCLO										
1654 FSI & 2272 FWL (K)															
	ë	1,000	07.000.74.70	( lok		Cak.								7/11/1926	30-015-01798
Melrose Energy	5	THE PARTY OF	Τ												
Ariesia Unit #33															
2370 [3] & [3] (a)														2001/00/6	707 10 5 10 00
Melrose Energy	Ö	Inactive	2072-2442	7	2072	Unk.								27.51/27/6	30-013-0173
Artesia Unit #56															
1570 FSL & 1570 FWL (K)															
														2/23/1027	30-015-01795
Melrose Energy	Oii	P&A	2320-2432	8 1/4	682	C <sub>P</sub>	SEE A1	SEE ATTACHED PLUGGING DIAGRAM	CGGING	DIAGKA	2			1767 16710	
Artesia Unit #57				7	619	Clak.									
1570 FSI & 1070 FWL (L)							$\downarrow$								
					100	1	1							1/30/1926	30-015-01791
Melrose Energy	ੌਂ	Active	2403-2418	2	526	T C	1								
Artesia Unit #58				\$ 1/4	600	1									
1070 FSL & 250 FWL (M)							L								
															202.00
M. L. Carre	ë	Inschive	2403-2443	9	354	Unk.								2/23/1926	30-015-01/92
Metrose Linergy	3		1	8 1/4	807	Unk.									
330 FSI & 330 FWI (M)				4 1/2	2362	200	61/4	1.32	9.7421	1425	surface		9/01	emp survey	
( )													447.47.17.	3501/21/17	30.015.02548
Melrose Energy	Ö	Active	2450-2466	8	300	Unk.	9	1.32	5.0909		*VALUE!	1	#VALUE		20-01-0-00
Artesia Unit #60			& 2351-61	7	750	20	8	1.32	12.2182		surface	£	)*()	1080 at 1080	
1880 FWL & 660 FSL (N)				5	2511	8	7	1.32	7.0304	surface	surince		Surface	2007	
						١	C C C C	CHE ATT CHED BY ICCINC DIACRAM	INCON	DIACDA	2		2517	6/3/1955	30-015-02550
Metrose Energy	Ö	P&A	2434-2452	S	2517	MI.	SEE A	TWIN THE							
Artesia Unit #61															
660 FSL & 2310 FEL (O)							1								
		1	2422.2512	8 5/8	545	9	2	1.32	7.1565		167	262	356	10/7/1955	30-015-02544
Melrose Energy	3	Active	7707-0047	\$112	2433	160	8	1.32	5.4303		1286	1573	1860		
Arcela Cint #02							L								
991 FSL & 9/0 FEL (F)											,		];	1/10/1007	30.015.74005
Devon Energy Com	Gas	Active	10,414-10,424	82	41	15	24	_	1.0413	Cigo	2		7	4/19/1902	30-013-6400
Featherstone State #1			_	13 3/8	415	400	17 1/2	_	1.4390	Circ.	surface		2,5		
1680 FSL & 660 FEL (I)				8 5/8	2813	1675	12 14	1.32	2.4219		surrace		200		
(A)				5112	740	2150	7.7/8	1.32	5,7695	Cig.	surrace		Surince		

				8 11 0	Dandh	No. of	Hole	CMT YLD	FT/FT3	Meas.	% 001 Ø	75%	% 0S Ø	Date	API Number
Well and Location	1 ype	Status	rerioramons	Catalog Sacc	110	Sacks	Size			3					
						į		MAGDAIN CHARLE BY LOCKING PINAGE AND	ONL JOIL	DIACDA	>			8/31/1970	30-015-20322
Melrose	P&A			8 5/8	561	900	NE AL	ACRED FL		- Trucker					
Artesia Unt #66				5112	2435	90									
1550 FNL 7 1950 FWL (F)															
	11.00		1159 3443	8/5/8	534	250	E	1.32	3.9321		surface	surface		1/14/1970	30-015-20273
Melrose	2	S. T.	20017	4 1/2	2600	625	7 7/8	1.32	4.3881		surface	surface			
2280 FNI & 1980 FEI (G)															
								5	7.525	١	a de la constante de la consta			8/31/1970	30-015-20327
Meirose	WIW	Inactive	2388-2426	8 5/8	550	300	10	1.32	2 7605	ر انا انا	surface				
Artesia Unit #67				5 1/2	2478	ç	8// /	1.32	2007	3					
2200 FSL & 2200 FWL (K)															100
4.1.70	19.0			01	328	Link.	SEE AT	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	M			5/13/2026	30-01 >-01 /94
Flynn Weich	ŝ			8 1/4	723	Unk.									
2390 FSL & 1070 FWL (L)															
								MAGDAIN DIACONO DIACOAM	OM OUT	MAGDA				5/7/2026	30-015-01793
Flynn Welch	P&A			01	374	OR.	SEEAL	I ACHIED PL	County	THE PERSON					
State 647 #41				8 1/4	715	Clak.									
1570 FSL & 250 FWL (L)															
T-18-S, R-28-E, Section 4															24400
	į		2771 2720	8/5 8	485	20	2	1.32	7.1565		13	131	349	8/21/1959	30-015-02556
B&W Oil Co.	5	Acuve	0677-1677	4 1/2	2306	00 1	6 1/4	1.32	9.7421		1020	1342	1863		
SMith State #1 660 FNI & 660 FEI. (A)															
000 1115 000 1177 (15)	L								-		1	13/2	260	3/9/1954	30-015-02590
Fina Oil & Chemical	Oil	P&A	2505-2526	8/5/8	505	8	9	1.32	7.1363		3				
Humble Stout State #1															
2310 FSL & 330 FEL (I)															
	ا		2040 3344	Q.	310	Ē								9/16/1925	30-015-02580
Melrose Energy	3	Inacuve	2007	8 1/4	009	CR.									
1070 FSL & 1070 FEL (P)				6.5/8	2040	Unk.									
														11/29/1925	30-015-02581
Melrose Energy	ō	Inactive	2270-2402	8 1/4	520	Ę,	7 7/0	1 33	\$ 7605		2120	2167	2215		
Levers State #2				5 1/2	2310	3	9),	75.7	3.7035						
250 FSI & 1070 FEL (P)															Cuaco 2:000
	į	Inactive	2151-2400	8 1/4	2005	C.R.								12/26/1925	30-013-02382
Melrose energy			1	6 5/8	2151	Unk.									
250 FSI & 250 FEI (P)	L														
														12/4/1925	30-015-02583
Melrose Energy	ö	Inactive	2047-2393	8 1/4	515	C C									
Levers State #4				6.5/8	2148	N N									
1070 FSL & 250 FEL (P)															

						No. of	Hole	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Meas.	1000	76%	%0% ©	Date	API Number
Well and Location	Type	Status	Perforations	Casing Size	Depth	Sacks	Size	CMI YED	FIZETS	тос	a man m	2.5		Drilled	
i	ē	D.9.A	2414.2416	91	535	Unk.	SEE ATT	SEE ATTACHED PLUGGING	UGGING	DIAGRAM	M			12/1/1925	30-015-02573
Fina Terior Chate #6	T		2111	8 1/4	850	Unk.									
1070 EET & 1670 EET (O)				6.5/8	698	Unk.									
10/01/25 & 12/01/25				4 1/2	244	Unk.									
														12/31/1048	30-015-02557
Meconsoille	P&A			10 3/4	285		SEE ATI	SEE ATTACHED PLUGGING DIAGKAM	CGGING	DIAGKA	2			14/11/11	
Carrie Man				8 1/4	535										
230 ENT & 330 EET (A)				7	1913										
330 FINE & 330 FEE (A)		T												30000	02260 200 01
Mr. I.	D.8.4						SEE ATI	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	Z			12/15/2025	30-013-02339
Majoney-Chambers	5														
3300 EM # 1070 EEI (H)	T	J													
COM FINE & TOTO FEE (II)	T													3000, 60, 6	30 015 03565
E Determine	P&A						SEE ATI	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	N			5707/57/71	30-013-02303
rround reported												I			
McQuigg #5		T													
1570 FSL & 1570 FEL (J)	T														
							CET ATT	SEE ATTACHED PLUGGING DIAGRAM	UGGING	DIAGRA	N			12/25/2025	30-015-02560
Sunray DX Oil	P&A														
Bookman State #1															
1570 FSI & 1070 FEL (1)															
T-18-S, R-28-E, Section 9															
(i	ë	Active	7318.2436	8 5/8	337	220	01	1.32	7.1565	Circ.	surface		surface	5861/1/01	30-015-25371
Sandiot ratergy	3			21.5	2493	500	8/4.4	1.32	5.7695	Circ.	surface		280		
I homas State #2	T														
330 FNL & 330 FEL (A)															
T 18 C D 28 F Section 10															
I TOO WALL TO THE											1,		70	3/12/1056	30-015-01808
Melroes Freres	ā	Inactive	2320-2518	8 5/8	320	50	2	1.32	.1365		surface	Surrace	6 6	2001	
Dun B Federal #12				4 1/2	2453	<u>8</u>	614	1.32	9.7421		è	1489	1010		
660 FNL & 1980 FEL (B)							1								
					3,5	1	0 5 6	133	4 100k		surface	surface	surface	9/6/1956	30-015-01812
Melrose Energy	WIW	Imactive	2448-2504	7	SIO	3,8	0/0/	1	1077.0		1386	809	1929		
Dunn B Federal #17				4 1/2	2572	3	6 14	7:32	7.1421						
660 FNL & 1980 FWL (C)															
							١	1	7 1666		andava	,	92	10/23/1957	30-015-01815
Melrose Epergy	IIO	Active	2356-2606	8 5/8	533	Ç	3	751	2001		200	13.	1365		
Dum B Federal #23				4 1/2	2651	200	0 1/4	1.32	7.7421						
660 FNI. & 660 FWL (D)															
					,										

# Wells that pumped HYS 400 cement with a measured TOC, used to calculate an average cement effeciency for HYS 400

		,									
2.29	3.21										
0.50	0.50	8,788	1,627	7,161	5.77	4,416	1,935	150	170	6,351	Empire Abo Unit G #37
	0.92	6,892	1,627	5,265	5.77	6,340	64	150	125	6,404	Empire Abo Unit F #38
0.56	0.56	8,788	1,627	7,161	5.77	4,938	1,467	150	170	6,405	Empire Abo Unit E #40
0.55	0.55	8,788	1,627	7,161	5.77	4,797	1,535	150	170	6,332	Empire Abo Unit #39
0.68	0.68	8,451	1,627	6,824	5.77	5,747	688	150	162	6,435	Empire Abo Unit D # 38
% Eff W/O highest percent	% Eff	Calc. Ft. Created,	Calc. Ft. Created,	Calc. Ft. Created, HYS Yld.=7.3	FT/FT3	Act. Ft. Created	ТОС	4% Incor.	HYS-400 4% Incor.	TD	Well Name

Average efficiency

0.64

0.57

TOC Eff Salc

Wells that pumped cement with a measured TOC which are not HYS 400 or using a DV tool, used to calculate an average cement effeciency.

				Act. Ft.		YId.=1.32 Calc. Ft.	
Well Name	큠	Cmt Sx	700	Created	FT/FT3	Created	% Eff.
EAU 35	6,199	850	640	5,559	4.388		1.13
Walker #4	2,094	575	520	1,574	4.388		0.47
EAU D 35	6,240	900	1,700	4,540	4.388	5,2	0.87
EAU 36	6,271	850	1,890	4,381	5.77		0.68
EAU E 36	6,345	750	950	5,395	4.388		1.24
EAU E 35	6,256	850	1,450	4,806	5.77		0.72
EAU F 35	6,336	850	1,350	4,986	4.388		1.0
EAU 36	6,339	950	975	5,364	4.388	5,5	0.97
AU 59	2,362	200	1,425	937	4.388		0.81
	•						1

Average % Efficiency

0.88

FOC E alc

			64% Eff.					sx 4% Incor	5 sx HYS & 150	*5 1/2 cmt'd w/ 125 sx HYS & 150 sx 4% Incor				660 FNL & 1980 FEL (B)
			1939'		5.7695	7.3 & 1.88	7 7/8	275*	6350	5 1/2				Empire Abo Unit # E-39
6350	30-015-01735	6/1/60	surface		10.0423	1.32	9 5/8	275	750	8 5/8	6210-6324	Inactive	<u>Q</u>	BP Amoco
				Meas. Toc				150 sx 4% Incor	0 sx HYS & 150 s	*5 1/2 cmt'd w/ 170 sx HYS &				2310 FSL & 330 FWL (L)
				1935	5.7695	7.3 & 1.88	7 7/8	320*	6351	5 1/2				Empire Abo Unit G #37
6351	30-015-01734	6/25/60			7.1565	1.32	10	300	720	8 5/8	6226-6238	Inactive	<u>©</u>	BP Amoco
				Meas				150 sx 4% Incor	5 sx HYS & 150	*5 1/2 cmt'd w/ 125 sx HYS &				1650 FNL & 1650 FWL (F)
				20	5.7695	7.3 & 1.88	7 7/8	275*	6404	5 1/2				Empire Abo Unit F #38
\$ \$ \$	5/15/60   30-015-01733	5/15/60		Circ.	7.1565	1.32	10	250	720	8 5/8	6246-6254	Inactive	<u></u>	BP Amoco
														1820 FNL & 150 FWL (E)
				500	5.7695	1.32	7 7/8	1476	6344	5 1/2				Empire Abo Unit F #373
6350	30-015-22805	5/3/79		11	3.9321	1.32	11	400	805	8 5/8	6234-6242	Active	<u>Q</u>	BP Amoco
														660 FNL & 1980 FWL (C)
	,			Circ.	5.7695	1.32	7 7/8	830	6344	5 1/2				Empire Abo Unit E #38
6349	30-015-01736	6/11/60		Circ.	3.9321	1.32	1	300	737	8 5/8	6242-6250	Inactive	<u>Q</u>	BP Amoco
														T-17-S R-28-E Section 35
			7								,			
			•											1850 FSI & 1650 FEL (J)
				1350	4.3881	1.32	77/8	400	2334	4 1/2				Empire Abo Unit G #351
6365	30-015-22123	12/6/56		Ωirc.	3.9321	1.32	11	375	900	8/8	6190-6200	Inactive	<u>Q:</u>	BP Amoco
														T-17-S, R-28-E, Section 34
														330 FSL & 660 FEL (P)
				150'	5.7695	1.32	77/8	850	6271	5 1/2				Empire Abo Unit #36
6271	30-015-01582	7/18/60		Circ.	7.1565	1.32	0	350	751	8/5/8	6180-6190	Active	<u>©</u>	BP Amoco
														T-17-S R-28-E Section 27
								1 0 moo	0 ex 110 cx 100	0 112 CHILLO 40 110 CHILLO 1110 CHILLO 111				200 - OF 20 0E0 - **E (m)
				Ç	0.7000	2.00	1	V AV Incar	02 10 150 c	* 1/3 om * 4/ 43				ESO ESI & BOO EMI (M)
0	00000	ㅗ		2 6	7 760K	722199	77/8	275*	8348	5 1/3			1	Empire Abo Init D #27
6220	30-015-01551	6/3/60		Circ	7.1565	1.32	5	300	739	8 5/8	6080-6100	Active	<u></u>	BP Amoco
							1							T-17-S R-28-E Section 26
							1	1						
ฮ	API Number	Date Drilled	TOC RE	Meas. TOC	FT/FT3	CMT YLD	Hole Size	No. Sacks	Depth	Casing Size	Perforations	Status	Туре	Well and Location

Thickening Time, Hours: Min

	Cement		Circulating	Bottom Hole T	emperature	
	Class	% Diamix P	103°F	125°F	172°F	
	Н	20	5:00 +	2:12	0:50	
	н	40	5:00 +	4:18	1:15	
	н	50	5:00 +	5:00 +	1:35	
,	н	60	5:00 +	5:00 +	4:15	
	С	. 20	4:12	2:12	0:40	
	С	40	5:00 +	2:36	1:00	
	C	50	5:00 +	3:07	1:10	
	Ć	60	5:00 +	3:45	1:32	

Compressive Strength, psi in 24 Hours

Cement Class	% Diamix P	80°F	100°F	140°F	200°F
н	20	414	691	1172	1743
- H	40	176	298	771	1354
H	50	98	205	660	1170
н ,	60	70	120	581	1069
С	20	604	998	1285	2069
С	40	333	548	812	1353
С	50	243	388	780	1240
С	60	198	315	638	1415

### **HYS-400**

HYS-400 has been developed as a high-yield, low-cost slurry for cementing in areas where large slurry volumes are required. HYS-400 provides adequate strength and thickening time for placement under most cementing conditions.

### **Slurry Composition**

	Cement	W	ster	Slurry	Density	Yield
Mixture	Class	gal/sk	cu ft/sk	PPG	pcf	cu fl/sk
HYS-400A	. A	47.5	6.35	10.8	80.8	7.72
HYS-400P	A	45.1	6.03	10.6	79.5	7.30
HYS-400P	н	45.1	6.03	10.6	79.5	7.30

Thicken	ina Time.	House	Min
MICABI	mu iune.	nouis.	mill

Mixture	Cement Class	8000 ft *125*F	10,000 ft *144*F	12,000 ft *172*F	14,000 ft *206*F
HYS-400A	Α .	4:45	3:20	2:15	1:20
HYS-400P	Ä	5:00 +	5:00 +	2:02	1:15
HYS-400P	•н	5:00 +	5:00 +	5:00 +	1:21

\*Circulating bottom hole temperature

### Compressive Strength, psi in 24 Hours

Mixture	Cement Class	100°F	140°F	200°F	260°F
HYS-400A	A	<u>-</u>	450	2200	677
HYS-400P	A	. 50	200	455	520
HYS-400P	н	34	206	313	445

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Туре	Status	Perforations	Size	Depth	No. Sacks	TOC	TOC	Drilled	API Number	百
으	Inactive	6300-6316	8 5/8	738	375		surface	-	30-015-01537	6392
			51/2	6383	320*		1550	-		
			*5 1/2 cmt	1 w/ 170 sx	HYS & 150 sx 4% Incor		55% Eff.			
으	Active	6152-6172	8 5/8	720	350		surface	-+	30-015-01554	6326
			5 1/2	6326	320*		1493	-+		
			*5 1/2 cmt'd	1 w/ 170 sx	HYS & 150 sx 4% Incor		55% Eff.			
<u></u>	P&A	6198-6224	8 5/8	720	375		surface	-	30-015-01553	6310
			51/2	6310	340*		1014			
			*5 1/2 cmt'd	1 w/ 190 sx	HYS & 150 sx 4% Incor		55% Eff.			
잍	Active	6060-6080	8 5/8	738	350		surface	-	30-015-01557	6280
			5 1/2	6226	320*		1393			
			*5 1/2 cmt'c	1 w/ 170 sx	HYS & 150 sx 4% Incor		55% Eff.			
일	Active	6080-6100	8 5/8	739	300		surface	-	30-015-01551	6220
			51/2	6218	275*	Circ.	_4	Circulate to	surface after so	neeze i
			*5 1/2 cmt'c	w/ 125 sx	HYS & 150 sx 4% Incor		$\dashv$			
<u></u>	Inactive	6158-6170	8 5/8	739	300	Circ.			30-015-01550	6435
			51/2	6435	312*	688		-		
			*5 1/2 cmt'c	l w/ 162 sx	HYS & 150 sx 4% Incor					
으	Active	6208-6222	8 5/8	732	300	Circ.		-	30-015-01552	6332
			5 1/2	6332	320*	1535		-4		
			*5 1/2 cmt'c	1 w/ 170 sx	HYS & 150 sx 4% Incor					
유	Active	6199-6219	8 5/8	714	375		surface	-	30-015-01555	6330
			5 1/2	6330	320*		1497	-		
			*5 1/2 cmt'c	w/ 170 sx	HYS & 150 sx 4% Incor		55% Eff.			
요	Inactive	6297-6315	8 5/8	750	300	Circ			30-015-01737	6405
			51/2	6405	320*	1467				
			*5 1/2 cmt*	1 w/ 170 sx	*5 1/2 cmt'd w/ 170 sx HYS & 150 sx 4% Incor					
		<del>┍┋┍╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒</del>	Status Inactive Inactive Active Active Active Active	Status Perforations Inactive 6300-6316 Inactive 6152-6172 Active 6158-6224 Active 6080-6080 Active 6158-6170 Inactive 6158-6170 Inactive 6199-6219 Active 6297-6315	Status Perforations Inactive 6300-6316 Active 6152-6172 Active 6198-6224 Active 6080-6080 Active 6158-6170 Inactive 6158-6170 Inactive 6199-6219 Active 6297-6315	Inactive 6300-6316 8 5/8 738 5 1/2 cmt'd w/ 170 sx HYS & 5 1/2 cmt'd w/ 162 sx HYS & 5 1/2 cmt'd w/ 162 sx HYS & 739 hactive 6158-6170 8 5/8 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 162 sx HYS & 739 5 1/2 cmt'd w/ 170 sx HYS	Status   Perforations   Size   Depth   No. Sacks	Petronations   Size   Depth   No. Sacks   Toc   Troc   T	Perforations   Size   Depth   No. Sacks   ToC   Trock	Status   Perforations   Size   Depth   No. Sacks   ToC   ToC   Drilled

Well and Location 1	Type	Status	Perforations	Size	Depth	No. Sacks	100	100	Drilled	API Number	큠
BP Amoco	₽	Inactive	6210-6324	8 5/8	750	275	Circ		6/1/60	30-015-01735	6350
Empire Abo Unit E #39				51/2	6350	275*		1939'			
660 FNL & 1980 FEL (B)				*5 1/2 cmt'd	w/ 125 sx	*5 1/2 cmt'd w/ 125 sx HYS & 150 sx 4% Incor		64% Eff.			
BP Amoco	<u>♀</u>	inactive	6246-6254	8 5/8	720	250	Circ.		5/15/60	30-015-01733	200
Empire Abo Unit F #38				5 1/2	2 2	275*	2				
1650 FNL & 1650 FWL (F)				*5 1/2 cmt'd w/ 125	w/ 125 sx	sx HYS & 150 sx 4% Incor					
	2		6200 6240		300				712000		3
	2	MACOVA	0170-0710	00/0	200	350		surrace	//13/60	30-010-01/38	5350
				2/1 0	0350	350-		ă.			
11650 FNL & 2310 FEL (G)				% SAH X8 002 /M DJW0 Z/L G.	W/ 200 sx	HYS & 150 sx 4% Incor		55% Eff.			
BP Amoco	으	Inactive	6274-6284	8 5/8	857	375		surface	9/6/61	30-015-01740	6421 221
Empire Abo Unit F #40				5 1/2	6421	340*		1125			
1650 FNL & 990 FEL (H)				*5 1/2 cmt'd	w/ 190 sx	*5 1/2 cmt'd w/ 190 sx HYS & 150 sx 4% Incor		55% Eff.			
DD Amono	2	7	6242 6200	o n/o	767	250			5	20 27 27 27 27 27 27 27 27 27 27 27 27 27	2070
Compine Abo Unit C #30	1		01.0000	7 0	6770	220		out idea	0/20/01	000100170	8
2310 ESI & 1650 EWI (K)				*5 1/3 cmt/d w/ 170 cv LVC 9	170 20	UVS 8 150 SV 19/ Inchr		100 CH			
						THE SECTION TO HISSE		20 /0 1-11.			
BP Amoco	<u>Q</u>	Inactive	6226-6238	8 5/8	720	300		surface	6/25/60	30-015-01734	6351
Empire Abo Unit G #37				5 1/2	6351	320*	1935				
2310 FSL & 330 FWL (L)				*5 1/2 cmt'd w/ 170	w/ 170 sx	sx HYS & 150 sx 4% Incor					
1-17-S, R-28-E, Section 36											
BP Amoco	잍	Inactive	6238-6252	8 5/8	748	350		surface	10/7/61	30-015-05760	\$2 80
Empire Abo Unit E #41				5 1/2	6400	320*		1567			
330 FNL & 330 FWL (D)				*5 1/2 cmt'd w/ 170 sx HYS &	w/ 170 sx	HYS & 150 sx 4% Incor		55% Eff.			
RECOMMENDATION:											

. 4.5.5



These are wells drilled in the 1920's and have no data available on them.	he 1920'	s and ha	ve no data ava	ilable on th	em.						
Well and Location	Туре	Status	Perforations	Casing Size	Depth	No. Sacks	Meas. TOC	Calc. TOC	Date Drilled	API Number	TD
1-17-9 D-28-E Section 35											
Welch	P&A			ÇŅ.		Unk.			9/9/26	30-015-01729	2710
State #1									P&A 8/14/34		
2310 FNL & 250 FWL (E)											
T-18-S, R-28-E, Section 3											
Melrose Energy	<u>Q</u>	Inactive	2313-2345	10 1/2	370	Ukn.			1/1/27	30-015-01799	2365
Artesia Unit #40				8 1/4	520	Ukn.	•				
1070 FNL & 1570 FWL (C)				5 3/16	2260	Ukn.					
Melrose Energy	<u>o</u>	Inactive	2282-2326	Ukn.	Ukn.	Ukn.			6/15/28	30-015-01790	2366
Artesia Unit #43											
1980 FNL & 250 FWL (E)											
Melrose Energy	<u>Q</u>	Inactive	2390-2400	10	305	Ukn.			1927	30-015-01775	2965
Artesia Unit #45				8 1/4	518	Ukn.					
2390 FNL & 1570 FEL (F)											
Melrose Energy	<u>Q</u>	Inactive	2400-2420	Ukn.	Ukn.	Ukn.			7/11/26	30-015-01798	2442
Artesia Unit #55											
2390 FSI & 1570 FWI (K)											
Melrose Energy	<u>Q</u>	Inactive	2072-2442	7	2072	Ukn.			3/28/26	30-015-01797	2442
Artesia Unit #56											
1570 FSL & 1570 FWL (K)											
Melrose Energy	의	P&A	2320-2432	8 1/4	682	<u>Ç</u>			8/23/27	30-015-01795	2438
Artesia Unit #57				7	619	Ukn.					
1570 FSI & 1070 FWL (L)											
Melrose Energy	으	Active	2403-2418	10	324	Ukn.			1/30/26	30-015-01791	2445
Artesia Unit #58				8 1/4	635	Ukn.					
1070 FSL & 250 FWL (M)											

		7									1570 FSL & 1570 FEL (J)
											McQuigg #5
2408	30-015-02565	12/23/25								P&A	Frontier Petroleum
											2390 FNL & 1070 FEL (H)
											State #1
2500	30-015-02559	12/15/25				-				P&A	Maloney-Chambers
					Unk.	244	4 1/2				
					Unk.	869	6 5/8				1070 FSL & 1570 FEL (O)
					Unk.	850	8 1/4				Levers State #5
2416	30-015-02573	12/1/25			Unk.	535	10	2414-2416	P&A	<u>Q</u>	Fina
											1070 FSL & 250 FEL (P)
					Ukn.	2148	6 5/8				Levers State #4
2417	30-015-02583	12/4/25			Ukn.	515	8 1/4	2047-2393	Inactive	<u>Q:</u>	Melrose Energy
											250 FSI & 250 FEI (P)
					Ukn.	2151	8/5 9				Levers State #3
2400	30-015-02582	12/26/25			Ukn.	500	8 1/4	2353-2400	Inactive	<u>o</u>	Melrose Energy
											250 FSI & 1070 FEL (P)
			2167		25	2310	5 1/2				Levers State #2
2402	30-015-02581	11/29/25			Ukn.	520	8 1/4	2270-2402	Inactive	<u>Q</u>	Melrose Energy
					Ukn.	2040	6 5/8				1070 FSL & 1070 FEL (P)
				•	Ukn.	600	8 1/4				Levers State #1
2344	30-015-02580	9/16/25			Ukn.	310	10	2040-2344	Inactive	<u>Q</u>	Melrose Energy
											T-18-S, R-28-E, Section 4
											10/0 FOE 0: 200 FAAF (F)
											1670 ECI 8 250 EMI (I)
					Unk	715	8 1/4				State 647 #41
2428	30-015-01793	5/7/26			Unk.	374	6			P&A	Flynn Welch
											2390 FSL & 1070 FWL (L)
					Unk.	723	8 1/4				State 647 #42
2432	30-015-01794	5/13/26			Cak.	328	10			P&A	Flynn Welch
		lemp Survey		1425	200	2362	4 1/2				330 FSL & 330 FWL (M)
					Ckr.	807	8 1/4				Artesia Unit # 59
2474	30-015-01792	2/23/26			Ukn.	354	10	2403-2443	Inactive	<u>[]</u>	Meirose Energy

Run CBL's and determine the actual Top of Cement. If the cement does not cover injection zone well will be squeeze cemented to cover zone.	RECOMMENDATION:		,	1570 FSI & 1070 FEL (I)	Bookman State #1	Sunray DX Oil		1570 FSL & 1570 FEL (J)	McQuigg #5	Frontier Petroleum		2390 FNL & 1070 FEL (H)	State #1
actual Top						P&A				P&A			
of Cement													
. If the cen													
ent does not													
cover injec	:								 				
tion zone we												+	
II WIII be sq													
neeze cettre	_					+						1	
Tred to cover 7	tod to cover	+				16777	ואר/כו			12/23/	12/22		
cone.	One			+		2020	ב אמרוארוכו	+		2020	3000		
						000000	30-015-00560			0010	12/2/2005		
							2425			1	2408		

Well and Location	Туре	Status	Locator	Солилент	Vocoumitation vacator
Markak Energy	<u>S</u>	P&A	Page 3	P& A	No action
N G Phillips #5					fresh water protected
1650 FSL & 1650 FEL (J)					
				,	N
Marbob Energy	Oil	Active	Page 3	Cement to surf	NO action
Walker State #2					fresh water protected
330 FSL & 1650 FEL (O)					
					NT
Melrose Energy	Oil	Inactive	Page 9	Calc TOC	No action
Artesia Unit #11				(@ 919 ft)	fresh water protected
360 FNL & 360 FWI (D)					
			ما		
Melrose Energy	Oil	Inactive	PAGE 17	212	No action
Artesia Unit #44		WIW		precourse	fresh water protected
2310 FNL & 990 FWL (E)					
Melroce Francy	<u>0</u>	Inactive	Page 17		Dig out well head
Artacia [Init #43					If surface is present
1080 ENT & 250 EWI (E)					fresh water protected
Melrose Energy	<u>S</u>	Inactive	Page 18		Dig out well head
Artesia Unit #56					If surface is present
1570 FSL & 1570 FWL (K)					fresh water protected
					Diameter Hand
Melrose Energy	<u>0:</u>	Inactive	Page 18		Dig out wen near
Artesia Unit #55					If surface is present
2390 FSI & 1570 FWI (K)					fresh water protected
					יאי וו און און און
Melrose Energy	Oil	P&A	Page 18		Well Flugged
Artesia Unit #61					tresh water protected
660 FSL & 2310 FEL (O)					



Well Name         Reference page # of 1/2 mile radius data           Well Name         Reference page # of 1/2 mile radius data           Larue, C.E. & Muncy B.M.         page 6           Moore State #1         page 15           Melrose Bnergy         page 15           Artesia Unit # 73         Page 18           Artesia Unit # 33         Page 15           Artesia Unit # 33         Page 15           Melrose Energy         Page 15           Artesia Unit # 33         Page 16           Melrose Energy         Page 17           Melrose Energy         Page 17           Melrose Energy         Page 17           Melrose Energy         Page 18           Melrose Energy         Page 18           Melrose Energy         Page 18           Melrose Energy         Page 18           Melrose Energy         Page 18		WELLS WITHOUT SUFFICIENT CEMENT IF	r if	
Muncy B.M.  30 FEL. (H)  0 FWL. (D)  1 FWL. (N)  5 S  1 FEL. (A)		50 % EFF. FACTOR USED		
Muncy B.M.  30 FEL. (H)  0 FWL. (D)  1 FWL. (N)  1 FWL. (N)  1 FEL. (A)  1 FEL. (A)  1 FEL. (A)  1 FEL. (A)		11 6 W 10 77 77 18 18 18 18 18 18 18 18 18 18 18 18 18		
Muncy B.M.  30 FEL (H)  10 FWL (D)  11 FWL (N)  12 FEL (A)  13 FEL (A)  14 FEL (A)  15 FEL (A)  16 FWL (K)	well name	Keference page # of 1/2 mue radii	us data	
30 FEL (H)  y 7 7 0 FWL (D)  1 FWL (N)  1 FWL (N)  7 1 FEL (A)  2 FWL (K)  1 FUL (K)				
30 FEL (H)  y 7 0 FWL (D) 1 FWL (N) 1 FEL (A) 1 FEL (A) 1 FEL (A) 2 FWL (K)	Moore State #1	page 6		
9 FWL (D)  1 SO FEL (J)  1 FWL (N)  5 SO FEL (A)  1 FEL (A)  1 FEL (A)  2 FWL (K)	1 1			
7 0 FWL (D) 30 FEL (J) 1 FWL (N) 5 1 FWL (N) 7 1 FEL (A) 1 FEL (A) 2 FWL (K)	Melrose Energy	page 15		٠,
9 FWL (D) 30 FEL (J) 11 FWL (N) 5 FEL (A) 1 FEL (A) 1 FEL (K)	Artesia Unit # 7			
3 50 FEL (J) 11 FWL (N) 15 FEL (A) 17 FEL (A)	480 FNL & 330 FWL (D)			
30 FEL (J) 1 FWL (N) 1 FEL (A) 1 FEL (A) 2 FWL (K)		- 48		
3 50 FEL (J) 13 1 FWL (N) 50 FWL (C) 7 7 FEL (A)	Molace Decem			
50 FEL (J) 11 FWL (N) 5 10 FWL (C) 7 7 17 1 FEL (A) 12 FWL (K)	A design Trait #62	Down 18		
5 5 6 FEL (A) FEL (A) FEL (A) FEL (A)	- 1	rage 10		
1 FWL (N) 5 (0 FWL (C) 7 (1 FEL (A) 2 FWL (K)	. ]			
1 FWL (N) 5 0 FWL (C) 7 7 7 FEL (A) 2 FWL (K)				•
1 FWL (N) 5 0 FWL (C) 7 7 7 FEL (A) 2 FWL (K)	Melrose Energy	Page 15		
1 FWL (N) 5 10 FWL (C) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Artesia Unit # 33			
5 00 FWL (C) 7 1 FEL (A) 2 FWL (K)	,			
5 0 FWL (C) 7 7 FEL (A) 1 FEL (K)				
5 (O FWL (C) (7 ( ) FEL (A) (7 ( ) ( ) FEL (K) (7 ( ) ( ) ( ) ( ) FEL (K) (7 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Melrose Energy	Page 16		
0 FWL (C)  7  7  FEL (A)  1  2 FWL (K)	Artesia Unit #35			
7 FEL (A) 1 2 FWL (K)	FWL.			
7 FEL (A) 1 2 FWL (K)	Molecular Description	Do. 17		
7 FEL (A) 1 1 2 FWL (K)	Mellose Ellergy	rage 1/		
) FEL (A)	Artesia Unit #37			
1 2 FWL (K)				
1 2 FWL (K)				
	Melrose Energy			
1654 FSI & 2272 FWL (K)	Artesia Unit #54	Page 18		
	1654 FSI & 2272 FWL (K)			

### Plugged wells with issues

Well and Location	Status	Comment	Recommened Action
Maloney-Chambers	Plugged	D&A	No Action Required
State #1		No Plugging Report	
2390 FNL & 1070 FEL	( <b>H</b> )		Well is nearly 1/2 mile from
			proposed injection well
			This well is an area where the
			reservoir is non productive
	T.		Because of low perm
			Producers will be drilled
			between this wellbore and
		The first section of the section of	the proposed injection well

On wells with unknow surface casing the proposed procedure is as follows:  1) Dig up wellhead to determine if surface pipe is present/ if present fresh water is protected
2) If surface pipe is not present/ run CBL to determine cement tops on Production pipe
If cement is above injection zone fresh water is protected
If cement is below injection zone well will be squeezed cemented to protect fresh water



					Danamanad Antion
Well and Location	Type	Status	Locator	Comment	Vecounities venou
Marhoh Energy	<u>2</u>	P&A	Page 3	P& A	No action
N.G. Phillips #5					fresh water protected
1650 FSL & 1650 FEL (J)					
		•	3	Gf	No action
Marbob Energy	<u>6</u>	Active	Page 3	Cement to sur	IAO action
Walker State #2					fresh water protected
330 FSL & 1650 FEL (O)					
Melrose Energy	Oi	Inactive	Page 9	Calc TOC	No action
Artesia Unit #11				(@ 919 ft)	fresh water protected
360 FNL & 360 FWI (D)					
Malrose Energy	2	Inactive	PAGE 17		No action
Artesia Unit #44		WIW			fresh water protected
2310 FNL & 990 FWL (E)					
Melrose Energy	<u></u>	Inactive	Page 17		Dig out well head
Artesia [[nit #43					If surface is present
1080 ENI & 250 EWI (E)					fresh water protected
1/00 11/12 50 200 1 11 20 (27)					
Melrose Energy	Oil	Inactive	Page 18		Dig out well head
Artesia Unit #56					If surface is present
1570 FSL & 1570 FWL (K)					fresh water protected
					7
Melrose Energy	Oil	Inactive	Page 18		Dig out well head
Artesia Unit #55					If surface is present
2390 FSI & 1570 FWI (K)					fresh water protected
Melrose Energy	Qi	P&A	Page 18		nagguri naw
Artesia Unit #61					Iresh Water protected
660 FSL & 2310 FEL (O)					



If cement is above injection zone fresh water is protected  If cement is below injection zone well will be squeezed cemented to protect fresh water	2) If surface pipe is not present/ run CBL to determine cement tops on Production pipe		1) Dig up wellhead to determine if surface pipe is present/ if present fresh water is protected		On wells with unknow surface casing the proposed procedure is as follows:	
---	--	--	---	--	---	--

FORM C-108 Revised 4-1-98

### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

### APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: Melrose Operating Company
	ADDRESS: c/o P.O. Box 953, Midland, TX 79702
	CONTACT PARTY: Ann E. Ritchie PHONE: 915 684-6381
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X Yes  If yes, give the Division order number authorizing the project: all prior orders/hearings attached
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Ann E. Ritchie TITLE: Regulatory Agent
	SIGNATURE: DATE: 8-29-01 (amended)
•	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.  Please show the date and circumstances of the earlier submittal: 8-25-00

### **Melrose Operating Company**

Artesia Unit, Well Numbers 2, 3, 10, 11, 12, 13, 16, 17, 18, 19, 44, 46, 54 & 57 Section 26, 35, 36, T17S, R28E & Section 3, T18S, R28E Eddy County, New Mexico

### **ATTACHMENT A**

### III. WELL DATA

### Section A:

- 1. Lease Name: Artesia Unit Locations: See table attached
- 2. Casing & Cement: Wellbore Diagrams & Spreadsheet attached
- 3. Tubing: 2 3/8" plastic coated tubing w/Baker Model R packer, set Approximately 70-80' above perforations.

### Section B:

- 1. Injection Formations: Penrose-Queen-Grayburg-San Andres Field Name: Artesia, Queen-Grayburg-San Andres
- 2. Injection Interval: Approximate depth among 14 applied for wells: 1800-2750'.
- 3. Original purpose of wells: Drilled for production of oil/gas
- 4. No other perforated intervals.
- Next High gas/oil zone: Penrose @ approximately 1650'
   Next Lower gas/oil zone: Abo @ approximately 6200'
- IV. This is an expansion of an existing project (copies of prior order submitted).
- V. Map attached all wells within 1/2 mile radius are of review

### VI. AREA OF REVIEW

There are extensive wells within the 1/2 mile area of review for each of the 14 wells that are included in this application as designated in the wellbore spreasheet attached.

### **Melrose Operating Company**

Artesia Unit

Page 2

### VII. Operation Data:

- 1. Proposed average daily injection volume: 150 bbls per day Proposed maximum daily injection volume: 400 bbls/day
- 2. These wells will operate within a closed system.
- Proposed average daily injection pressure: 400 psi
   Proposed maximum daily injection pressure: .2 psi to top perforation.
   Step rate tests will be performed and provided to the Oil Conservation Division for review in order to operate at increased injection pressures, if necessary.
- 4. Sources of injection water will be from the Penrose/Queen/Grayburg/San Andres.
- 4. Chlorides are as listed in the attached Water Analysis.

### VIII. Geological Data:

Information pertaining to the lithological details and thickness are as stated in the attached "Geological Statement".

- IX: Stimulation Program: At this time no stimulation program is proposed for the injection interval.
- X. Logs have been previously submitted for the Artesia Unit, recent logs from wells drilled within the last year will also be submitted.

### XI. Fresh Water:

The fresh water is estimated to be @ 350-400' according to New Mexico Oil Conservation Division recommendations for this area & by landowner. (Fresh water analysis attached)

### XII. Statement:

To the best of current knowledge of the area there is no evidence of open faults or other hydrologic connection between the injection zone and any underground sources of drinking water.

- XIII. Proof of notice attached/newspaper certification.
- XIV. Certification: OCD, Form C-108 "Application for Authorization to Inject"

The current status of offsels needs to be confirmed 4/03

Offset Operators: (Melrose Operating Company - Artesi reeds to be

A copy and/or notification of the C-108 athorization to In the following operators:

: to

Vastar Resources 15375 Memorial Dr. Houston, TX 77079-4101

Marbob Energy P.O. Box 227 Artesia, NM 88211-0227

Mewbourne Oil P.O. Box 7698 Tyler, TX 757ll-7698

Laure, C.E. Muncy P.O. Box 1370 Artesia, NM 88211-1370

R.B. Operating 5100 E. Skelly, Suite 650 Meridian Tower Tulsa, OK 74135-6549

W.E. Jeffers P.O. Box 65 Artesia, NM 88210

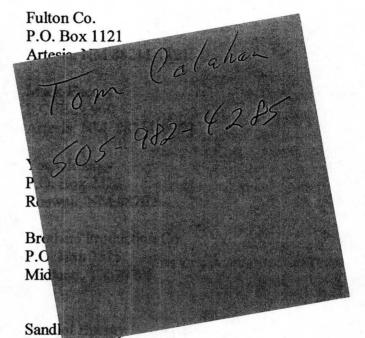
B & W Oil Co. R-252 N. Haldeman RD Artesia, NM 88210

BP Permian Business Unit (Arco) 501 Westlake Park Blvd., WL Suite 200 Houston, TX 77070

Devon Energy Corporation 20 North Broadway, Suite 1500 Oklahoma City, OK 73102

Surface Owners:

Yates Drilling Co. 110 S. 4<sup>th</sup> St., Yates Bldg. Artesia, NM 88210



P.O. Box 711 Lovington, NM 88260

Vintage Drilling P.O. Box 158 Loco Hills, NM 88255

Louis Dreyfus Natural Gas Corp. 14000 Quail Springs, Pky, Ste 600 Oklahoma City, OK 73134

Bogle LTD, P.O. Box 441, Artesia, NM 88210 State of New Mexico, Commissioner of Public Lands, P.O. Box 1148, Santa Fe, NM 87504-1148

### **Melrose Operating Company**

Artesia Unit

Injection Application for Waterflood Expansion

Hearing Date: September 6, 2001

### Well Numbers and Locations:

Well #2	330' FSL & 330' FWL	Section 26	T17S	R28E
Well #3	330' FSL & 1750' FWL	Section 26	T17S	R28E
Well #10	330' FNL & 1950' FWL	Section 35	T17S	R28E
Well #11	360' FNL & 360' FWL	Section 35	T17S	R28E
Well #12	1980' FNL & 660' FWL	Section 35	T17S	R28E
Well #13	1980' FNL & 1980' FWL	Section 35	T17S	R28E
Well#16	1980' FNL & 660' FWL	Section 36	T17S	R28E
Well #18	1980' FSL & 1980' FWL	Section 36	T17S	R28E
Well #19	1980' FSL & 660' FWL	Section 36	T17S	R28E
Well #44	1980' FNL & 1070' FWL	Section 3	T18S	R28E
Well #46	2310' FNL & 2267' FWL	Section 3	T18S	R28E
Well #54	1654' FSL & 2272' FWL	Section 3	T18S	R28E
Well #57	1570' FSL & 1070' FWL	Section 3	T18S	R28E

Eddy County, New Mexico Artesia; Queen-Grayburg-San Andres Pool

### Melrose Operating Company Artesia Unit Sections 26, 35, 36 in T17S, R28E & Section 3, T18S, R28E Eddy County, New Mexico

Concerning the injection/waterflood application for Wells #2, 3, 10, 11, 12, 13, 16, 17, 18, 19, 44, 46, 54, and 57, all of the wells were initially drilled and completed for oil/gas production to the best of my knowledge.

The perforations designated on the wellbore diagrams included in this application are the existing perforations, excluding Wells # 16 & 57 which are P & A and will be drilled out to open the existing perfs/open hole interval as designated on the wellbore diagram.

The Abo formation underlies the Grayburg/San Andres/Penrose in this area at an approximate depth of 6200'.

Upon approval of the Artesia Unit injection well(s) application, Melrose intends to pull out all existing tubing in the wells and run 2 3/8" plastic coated tubing with Baker Model R packers within 100 of the top perforation or open hole interval.

Ann E. Ritchie, Regulatory Agent

Melrose Operating Company

C/o P.O. Box 953 Midland, TX 79702

(915) 684-6381

Attachment to Oil Conservation Division Form C-108 "Application for Authorization to Inject"

Geological Statement

### C-108 APPLICATION FOR AUTHORIZATION TO INJECT ARTESIA UNIT

The proposed injection zones are Grayburg-Upper San Andres formations approximately 1800 to 2700 feet. The formations consist of dolomite and sandstones with alternating beds of silty to sandy dolomite and gray arkosic sandstones. Generally, the gross thickness of the Grayburg ranges from 300 to 400 feet thick and the Upper San Andres ranges from 350 to 400 thick Both of these zones have historically flooded very well and are still actively being flooded in other leases in the area. There is no know sources of drinking water underlying the injection interval.

Anthony Leilman, PE

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

APPLICATION OF MELROSE OPERATING COMPANY FOR EXPANSION OF ITS ARTESIA UNIT WATERFLOOD PROJECT LEA COUNTY, NEW MEXICO

**CASE NO. 12709** 

### CERTIFICATE OF MAILING AND COMPLIANCE WITH ORDER R-8054

STATE OF NEW MEXICO )

) SS.

COUNTY OF SANTA FE

W. Thomas Kellahin, being first duly sworn, hereby certifies that he is an attorney for the Applicant and responsible for notification in this matter and that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on July 19, 2001, he caused to be mailed by certified mail return-receipt requested the attached notice of this hearing and a copy of the application for the above referenced case, at least twenty days prior to the hearing of this case set for September 6, 2001, to the parties shown in said application and as evidenced by the attached copies of return receipt cards and/or receipts of certified mailing, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule.

W. Thòmas Kellahin

SUBSCRIBED AND SWORN to before me this 5th day of September, 2001, by W. Thomas Kellahin.

BEFORE THE

OIL CONSERVATION DIVISION

Case No.12709 Exhibit No.\_\_

Submitted By:

Melrose Operating Co. Hearing Date: September 6, 2001

Lynda Kellahin, Notary Public



OFFICIAL SEA

### KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

II7 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE. NEW MEXICO 87504-2265

JASON KELLAHIN (RETIRED 1991)

'NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

W THOMAS KELLAHINS

July 19, 2001

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

TO: NOTICE OF THE HEARING OF THE FOLLOWING NEW MEXICO OIL CONSERVATION DIVISION CASE:

Re: Application of Melrose Operating Company for the expansion of its Artesia Unit Waterflood Project and to amend Division Administrative Order WFX-768 Eddy County, New Mexico

On behalf of Melrose Operating Company, please find enclosed a copy of our referenced application which will be heard by the New Mexico Oil Conservation Division Examiner at 8:15 AM on August 9, 2001. The hearing will be held at the Division hearing room located in the Pinon Building, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 (phone 505-476-3440).

As a party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. You are not required to attend this hearing, but failure to appear at the hearing and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 1208.B, you are further notified that if you desire to appear in this case, then you are required to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, August 3, 2001, with a copy delivered to the undersigned. This statement must include: the names of the parties and attorneys; a concise statement of your position in this case; the names of all witnesses you will call to testify at the hearing; the approximate time you will need to present your case and identification of any procedural matters that area to be resolve prior to the hearing.

W. Thomas Kellahin

### OFFSET OPERATORS NOTIFICATION

A copy of the C-108 Authorization to Inject application has been sent to the following operators by certified mail. Surface owners or offset operators must file any objections or requests for hearing of administrative application within 15 days from the date this application was mailed to them.

Vastar Resources 15375 Memorial Dr. Houston, TX 77079-4101

Marbob Energy PO Box 227 Artesia, NM 88211-0227

Mewbourne Oil PO Box 7698 Tyler, TX 75711-7698

Larue, C.E. Muncy PO Box 1370 Artesia, NM 88211-1370

R.B. Operating 5100 E. Skelly STE 650 Meridian Tower Tulsa, OK 74135-6549

W.E. Jeffers PO Box 65 Artesia, NM 88210

B&W Oil Co R-252 N. Haldeman RD Artesia, NM 88210

### Surface Owners:

Bogle LTD PO Box 441 Artesia, NM 88210

State Of New Mexico
Commissioner of Public Lands
PO Box 1148
Santa Fe, NM 87504-1148

BP Permian Business Unit (Arco) 501 Westlake Park Blvd. WL Suite 200 Houston, TX 77070

Yates Drilling Co. 110 S. 4th Street Yates Bldg Artesia, NM 88210-2123

Fulton Co. PO Box 1121 Artesia, NM 88211-1121

Artesia, NM 88211-1121

P. O. Box 960

Mack Energy

PO Box 490

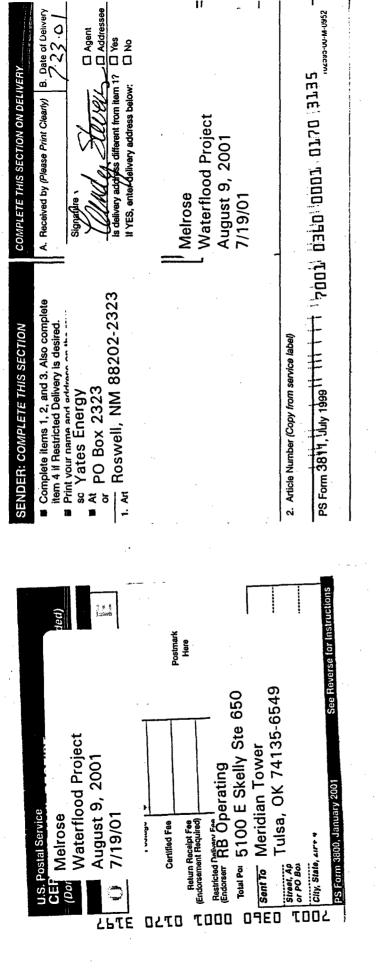
Duncan, OK 73534-0400

88211-0960

Yates Energy PO Box 2323 Roswell, NM 88202-2323

Brothers Production Co. PO Box 7515 Midland, TX 79708

Sandlott Energy PO Box 711 Lovington, NM 88260



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NDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	Notional State of Moderation National State of N	COMPLI
Complete items 1, 2, and 3. Also complete tem 4 if Restricted Delivery is desired.	A. Received by (Please Print Clearly) B. Date of Delivery	■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Recei
rint your name and address on the reverse to that we can return the card to you.  Attach this card to the back of the mailpiece,  State of New Mexico	C. Signature Agent Addressee	Print your name and address on the reverse so that we can return the card to you.  Att WE Jeffers	C. Signa
Commissioner of Public Lands PO Box 1148	D. Is period address bitter of them 17 D Yes in the control of the	1. Art Artesia, NM 88210	is del
Santa Fe, NM 87504-1148	) JUL 2 0 2001		
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vticle Number (Copy from service label)			

-COMPLETE-THIS SECTION ON DELIVERY	A. Received by (Please Print Clearly)  C. Signature  C. Signature  Is delivery address different from item 1?  If YES, enter delivery address below:	Melrose Waterflood Project August 9, 2001 7/19/01
-SENDER: COMPLETE-THIS SECTION	■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that your name and address on the reverse so that WE Jeffers  or PO Box 65  1. Arti Artesia, NM 88210	

Form 3811, July 1999

. PS Form 3811. July 1999

102595-00-M-0952

2. Article Number (Copy from service label)

**Domestic Return Receint** 

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SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the malipiece, or on the front if space permits.  Mewbourne  Tyler, TX 75711-7698		2. Article Number (Copy from service label) PS Form 3811, July 1999 D: 7001	SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Frint your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the malipiece, or on the from it and the card to the back of the malipiece, or on the from it.  Marbob Energy  PO Box 227	Artesia, NM 88211-0227	2. Article Number (Copy from service label)
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FR: COMPLETE THIS SECTION plete items 1, 2, and 3. Also complete 4 if Restricted Delivery is desired. I your name and address on the reverse lat we can return the card to you. Bogle LTD PO Box 441 Artesia, NM 88210	e Number (Copy from service label)	= 1	R: COMPLETE THIS SECTION lete items 1, 2, and 3. Also complete if Restricted Delivery is desired. Your name and address on the reverse t we can return the card to vou. Others Production Co. Box 7515 dland, TX 79708		Number (Copy from service label) 7001, 0350 (3811, July 1999 Domestic Return Receipt

PS Form 3811, July 1999

102595-00-M-0952

C. State California B. Date of Deliver, X  C. State California B. Date of Deliver, X  C. State California B. Date of Deliver, X  D. is delivery address different from item 1? These If YES, enter delivery address below: D. No.	Melrose   Waterflood Project   August 9, 2001   7/19/01	7001, 0360 0001, 01.70 31.04 Domestic Return Receipt	A. Received by (Please Print Clearly)  C. Signature  C. Signature  Is delivery address different from item 1?  If YES, enter delivery address below:  No	Melrose Waterflood Project August 9, 2001	7001 0350 0001 0170 3098
SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Yates Drilling Co.  110 S 4th Street Yates Bldg  Artesia, NM 88210-2123		2. Article Number (Copy from service label) 70 PS Form 3811, July 1999 Domestic	SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so Sandlott Energy or PO Box 711  1. Ar Lovington, NM 88260		2. Article Number (Copy from service label) 7001. PS Form 3811, July 1999 Domestic F
A. Received by (Please Print Clearly) B. Date of Delivery DCM   B. Date of Delivery   B. Date of Delivery   C. Signature   Agent   Age	Melrose = Waterflood Project = August 9, 2001	7001 0360 0001 01.70 31.1.1. 'Domestic Return Receipt 102595-00-M-0952	A. Received by (Please Print Clearly)  B. Date of Delivery  LISA CLOUTED 723-0/  C. Signature  X X MM (MALKED) Addressee  D. Is delivery address different from itch 1?   The Season of	Melrose Waterflood Project August 9, 2001 7/19/01	7001 0350 0001 0170 3128
DER: COMPLETE THIS SECTION Implete items 1, 2, and 3. Also complete im 4 if Restricted Delivery is desired. Int your name and address on the reverse int we can return the card to you. Fulton Co. O Bos 1121 Artesia, NM 88211-1121		ticle Number (Copy from service labr" 7001. Common 3811, July 1999	nplete items 1, 2, and 3. Also complete in the stricted Delivery is desired. It your name and address on the reverse that we can return the card to you.  Mack Energy PO Box 960 Artesia, NM 88211-0960		cle Number (Copy from service label)

102595-00-M-0952

102595-00-M-0952 PS Form 3811, July 1999

COMPLETE THIS SECTION ON DELIVERY	A. Received by (Please Print Clearly) B. Date of Deliver.  C. Signature  X. Addressed  D. Is derivery address below: D. No  If YES, enter delivery address below: D. No	Waterflood Project August 9, 2001 7/19/01	7001 0350 0001 0170 3241	A. Received by (Please Print Clearly)  A. Received by (Please Print Clearly)  C. Sgnature  X. M.	[' Melrose Waterflood Project August 9, 2001 7/19/01	7001 0360 0001 0170 3227  Domestic Return Receipt 102595-00-M-C
SENDER: COMPLETE THIS SECTION	<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mallpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>BP Permian Business Unit (ARCO)</li> <li>501 Westlake Park Blvd.</li> </ul>	Houston, TX 77070		SENDER: COMPLETE THIS SECTION  Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Arresia, W Oil Co.  R-252 N Haldeman Rd.  T. Artesia, NM 88210		2. Article Number (Copy from service label) 7001 PS Form 3811, July 1999 Domestic
COMPLETE THIS SECTION ON DELIVERY	A. Received by (Please Print Clearly)  E. M. P. L. L. L. L. L. P. L. L.  C. Signature  C. Signature  Addresse delivery address below:   No  No	Melrose Waterflood Project August 9, 2001	Domestic British 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A. Received by (Please frint Clearly)  C. Signature  X. Complete C	Service Type Melrose Waterflood Project August 9, 2001	9215 9516 1111 1111 111
PENDED. COMPLETE TURS SECTION	Complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the malipiece, or on the form "C.E. Muncy  Attach PO Box 1370  Artesia, NM 88211-1370			Complete items 1, 2, and 3. Also complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.  Arr. Vastar Resources 15375 Memorial Drive Houston, TX 77079-4101		Article Number (Copy from service label)

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

APPLICATION OF MELROSE OPERATING COMPANY FOR EXPANSION OF ITS ARTESIA UNIT WATERFLOOD PROJECT LEA COUNTY, NEW MEXICO

**CASE NO. 12709** 

### CERTIFICATE OF MAILING

STATE OF NEW MEXICO )

(COUNTY OF SANTA FE )

W. Thomas Kellahin, being first duly sworn, hereby certifies that he is an attorney for the Applicant and that on August 30, 2001, he caused to be mailed by certified mail return-receipt requested the attached notice of this hearing and a copy of the application for the above referenced case to the parties shown in said application and as evidenced by the attached copies of return receipt cards and/or receipts of certified mailing, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule.

W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me this 5th day of September, 2001, by W. Thomas Kellahin.

Lynda Kellahin, Notary Public

OFFICIAL SEAL
Lynda Kellahin
NOTARY PUBLIC
STATE OF NEW MEXICO

BEFORE THE
OIL CONSERVATION DIVISION
Case No.12709 Exhibit No.\_\_
Submitted By:
Melrose Operating Co.
Hearing Date: September 6, 2001

### KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

W. THOMAS KELLAHIN

August 29, 2000

TELEPHONE (505) 982-4285 TELEFAX (505) 982-2047

### CERTIFIED MAIL-RETURN RECEIPT REQUESTED

TO: NOTICE OF THE HEARING OF THE FOLLOWING NEW MEXICO OIL CONSERVATION DIVISION CASE:

Re: Application of Melrose Operating Company for and expansion of its Artesia Unit Waterflood Project and to amend Division Administrative Order WFX-768 Eddy County, New Mexico.

On behalf of Melrose Operating Company, please find enclosed a copy of its application to the Division in the referenced matter. This case has been set for hearing on the New Mexico Oil Conservation Division Examiner's docket now scheduled for September 6, 2001. The hearing will be held at the Division hearing room located at 1220 South Saint Francis Drive, Santa Fe, New Mexico.

As party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Pursuant to the Division's Memorandum 2-90, you are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, August 31, 2001, with a copy delivered to the undersigned.

Thomas Kellahin

		<b>CERTIFIED MAIL RECE</b>	IPT .
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		or PO Box Oklahoma City, OK	73102
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U.S. Postal Service

FROM: WTOR

PHONE NO. : 915 682 1458

AUG. 18 2000 02:22PM P3

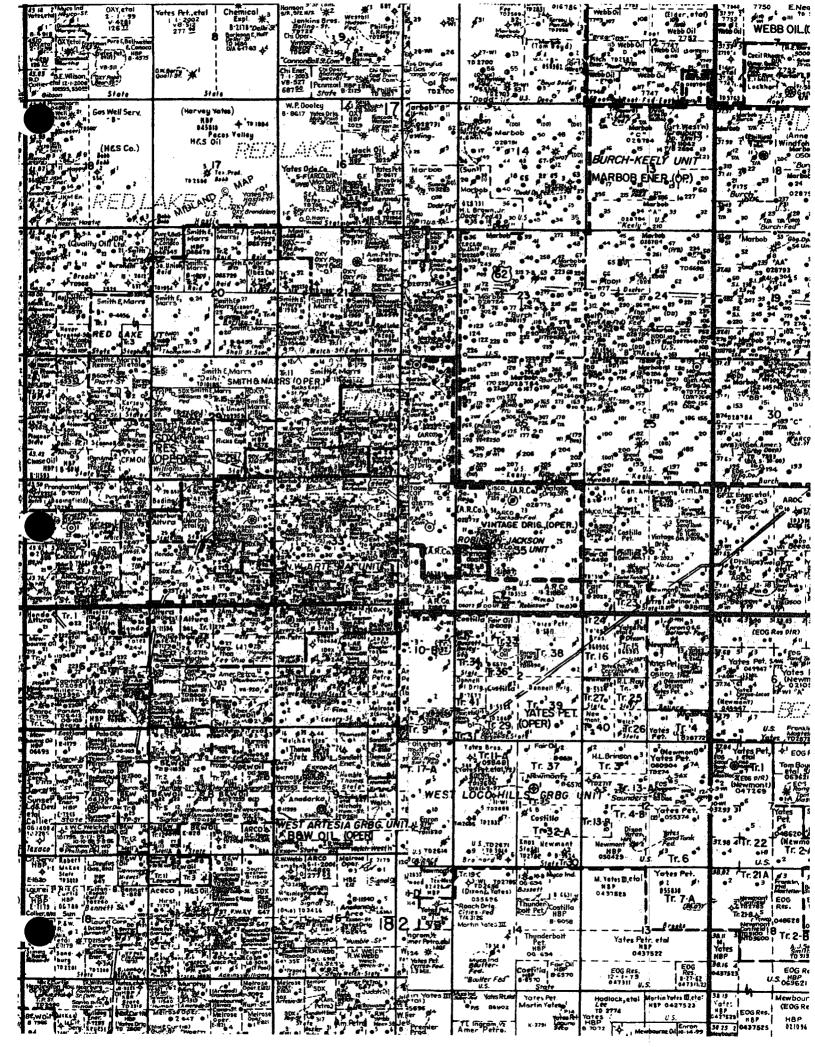
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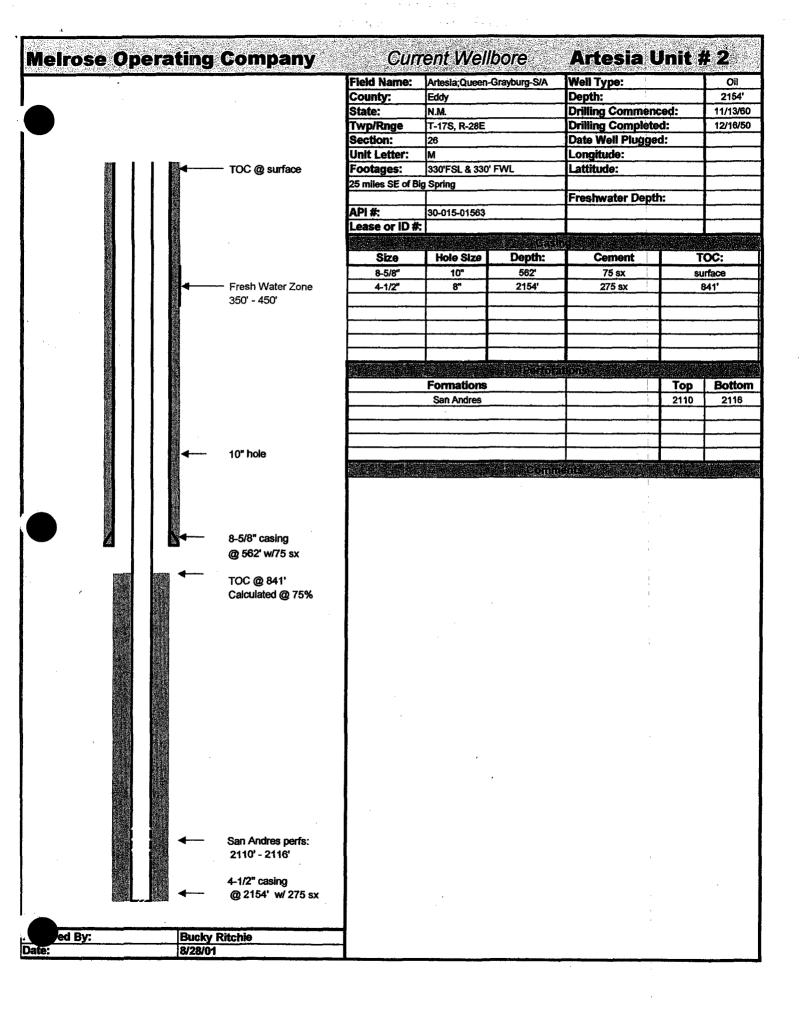
STATE OF New Mexico	•
COUNTY OF Eddy	
Before me, the undersigned authority, on this day personally a	ppeared
Gary D. Scott the Publisher (little)	of the
(Name)  Artesia Daily Press (Name of Newspaper)  Artesia Daily Press (Name of Newspaper)	aper having
general circulation in Eddy County, N M , who	
duly sworn, deposes and says that the foregoing attached notice was said newspaper on the following date(s), to wit: August 22, 200	s published in
Jan Vy	cott
Subscribed and sworn to before me this the	t , 19, 2000
to certify which witness my hand and seal of office.	• '
Backer Lunic In	Brens and for
Eddy	_County, New Mexico

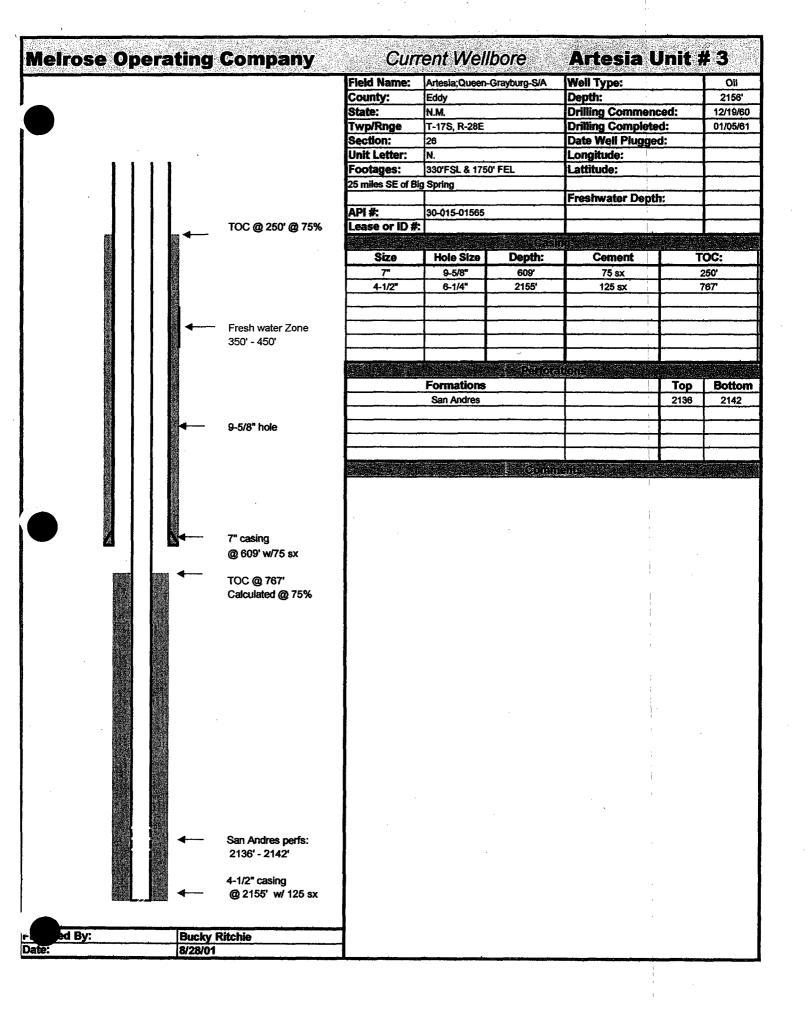
or requests for hearing the Oile Conservation for 2040 S. Pacheco St., 1040 S. Pachin and St., 1040 S. Paching Arm E. Ritchie allatory Agent, P.O. Box Midland, TX. 79702, or Midland, TX. 79702, or Midland, TX. 79702, or Sea-6381.

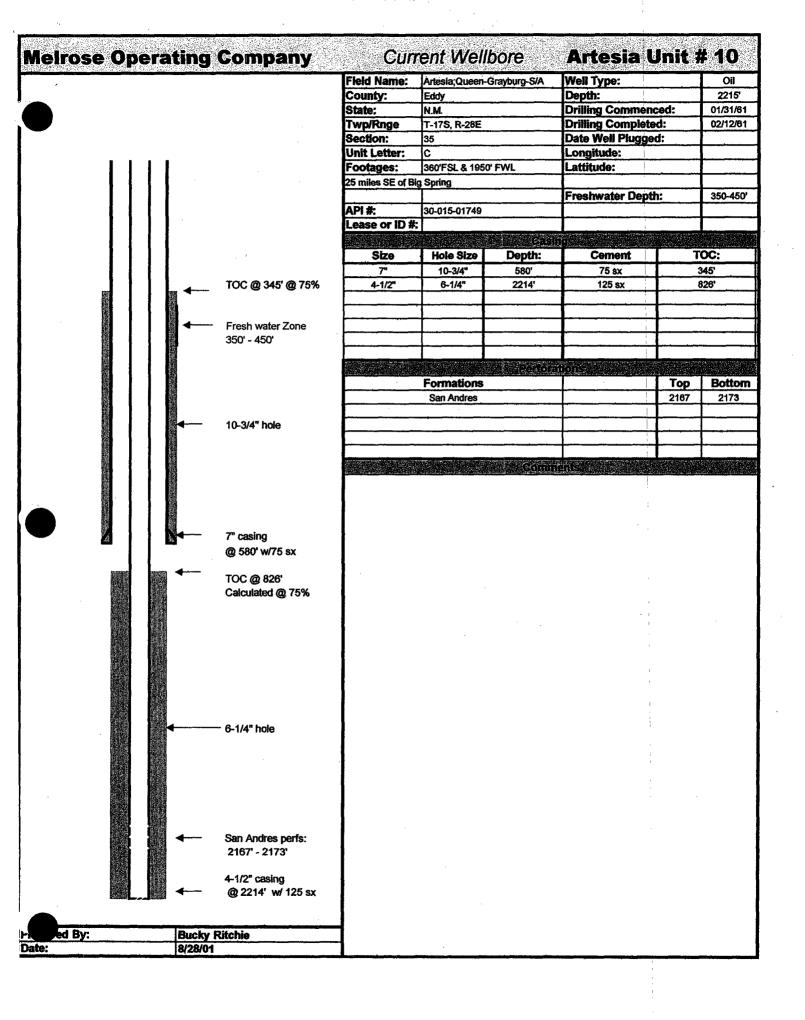
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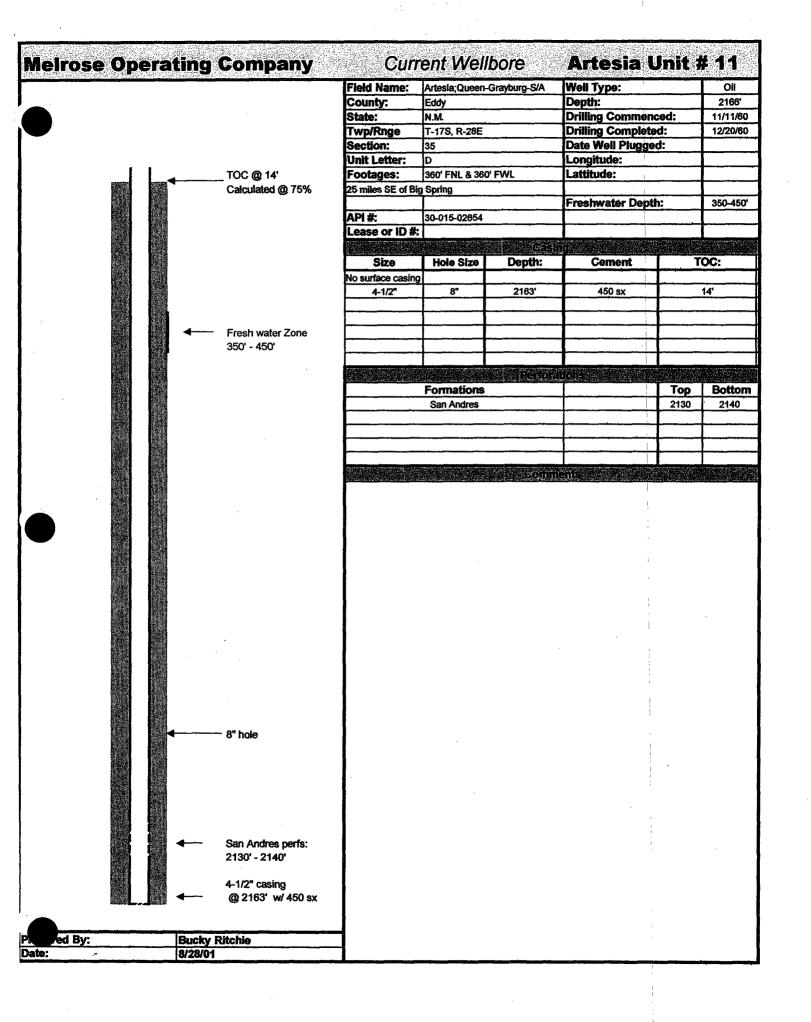
20" FWL. Section 35, T175.
22E: Well #16: 1890 FNL 8
22: Well #17: 1890 FNL 8
22: Well #17: 1890 FNL 8
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23: Well #18: 1890 FSL 8
24: Well #18: 1890 FSL 8
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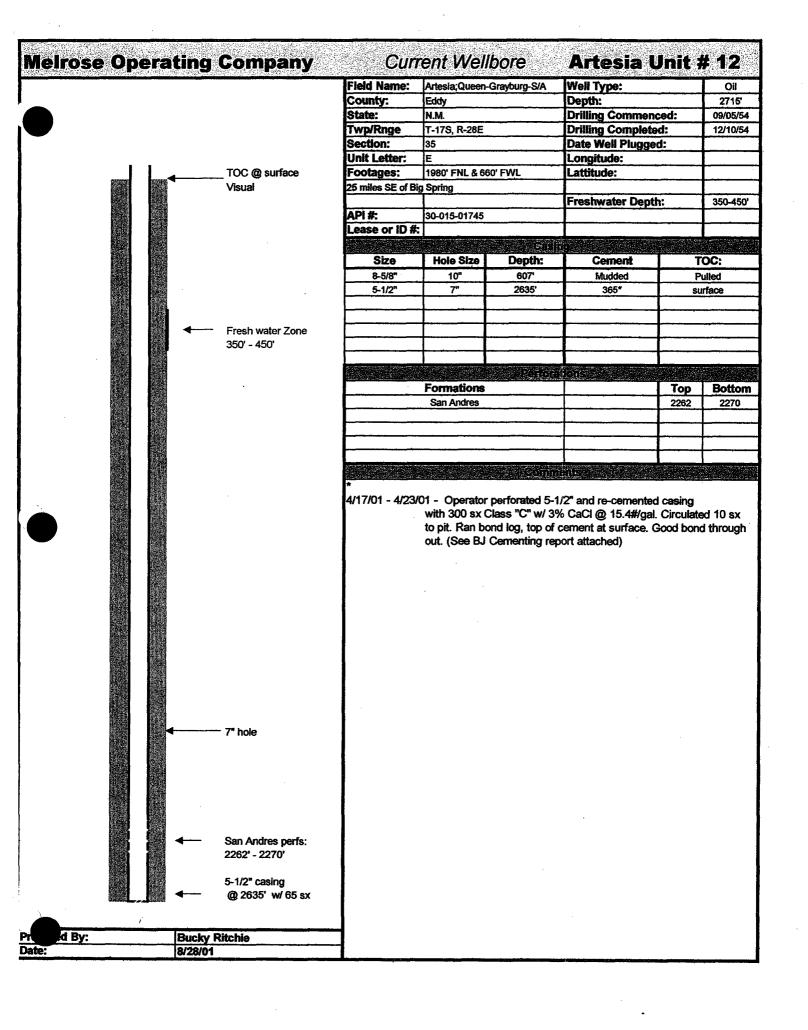


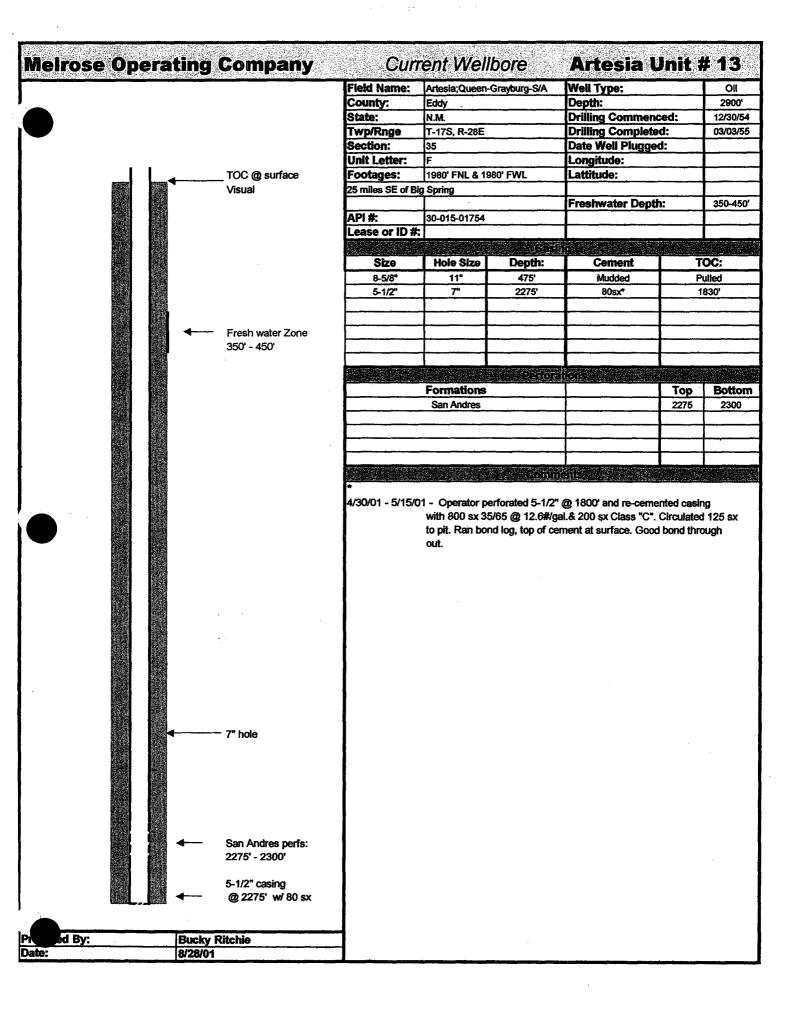


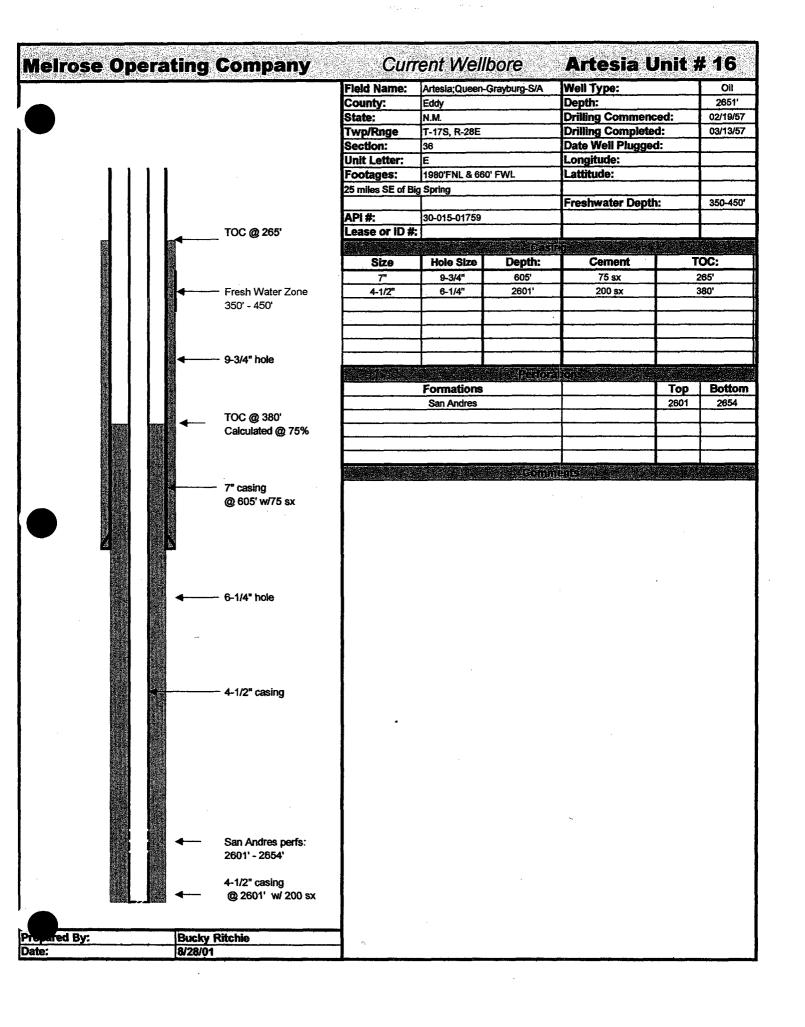


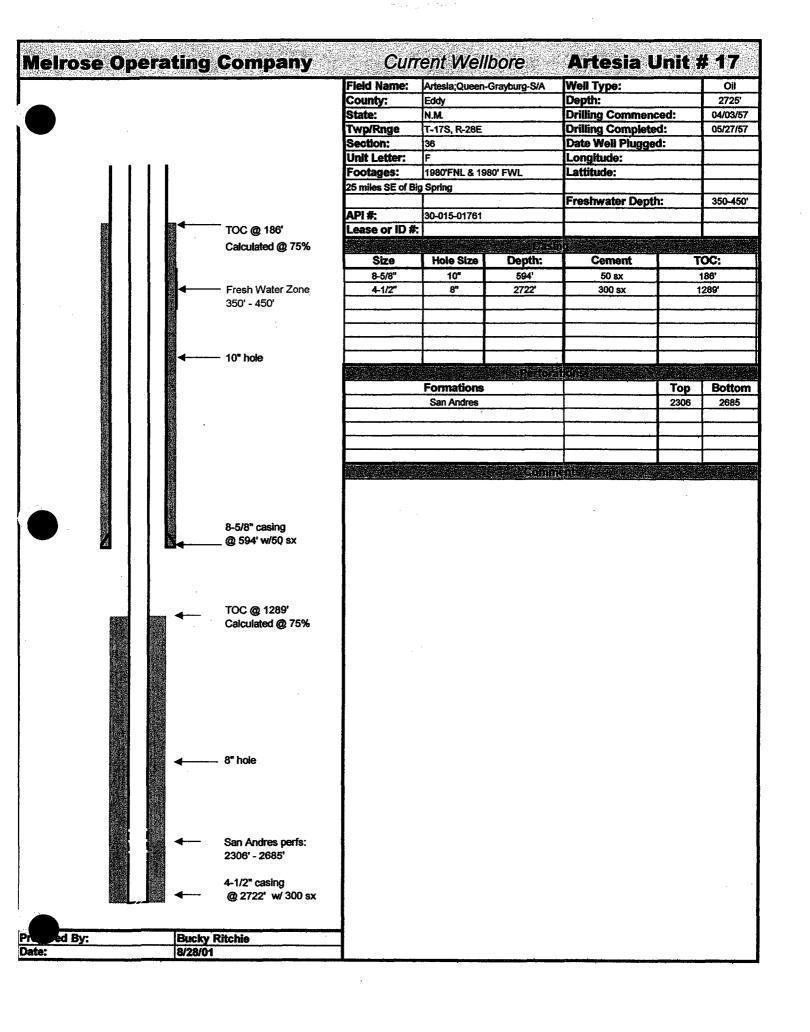


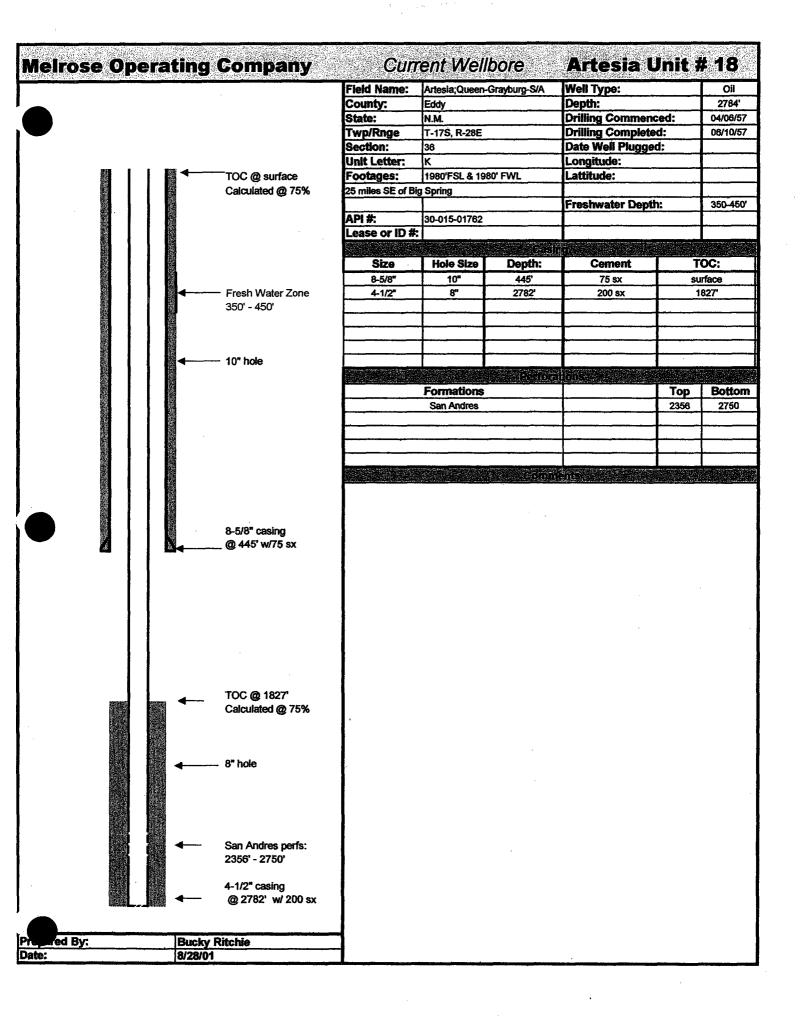


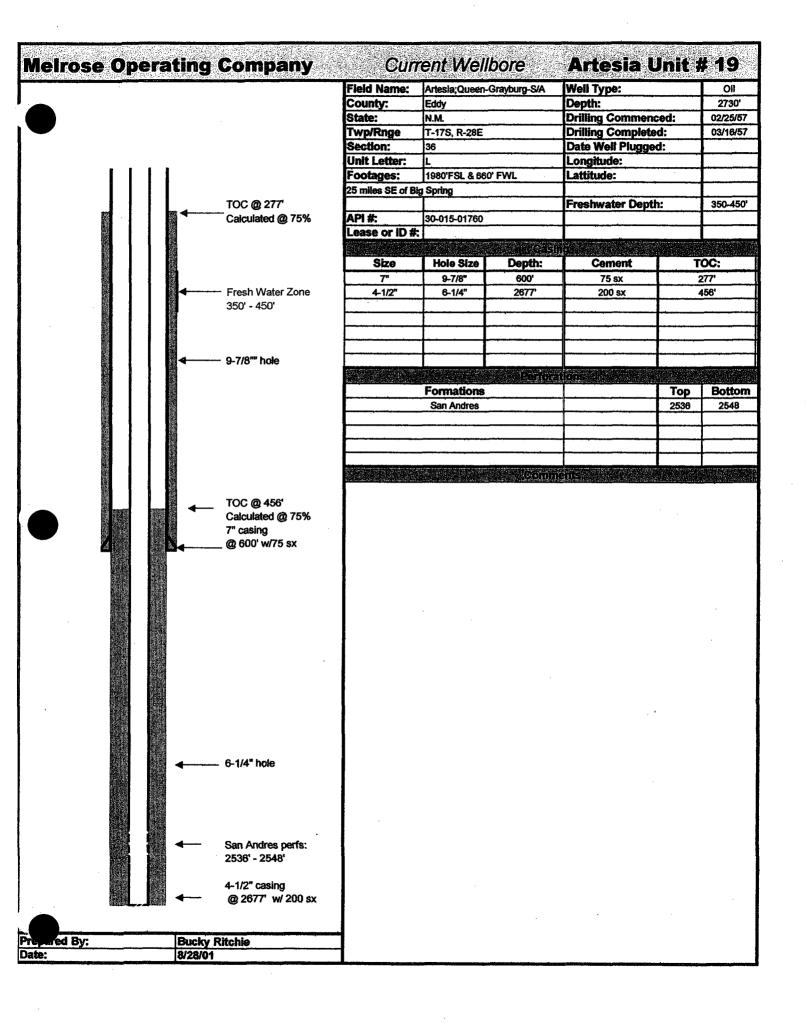


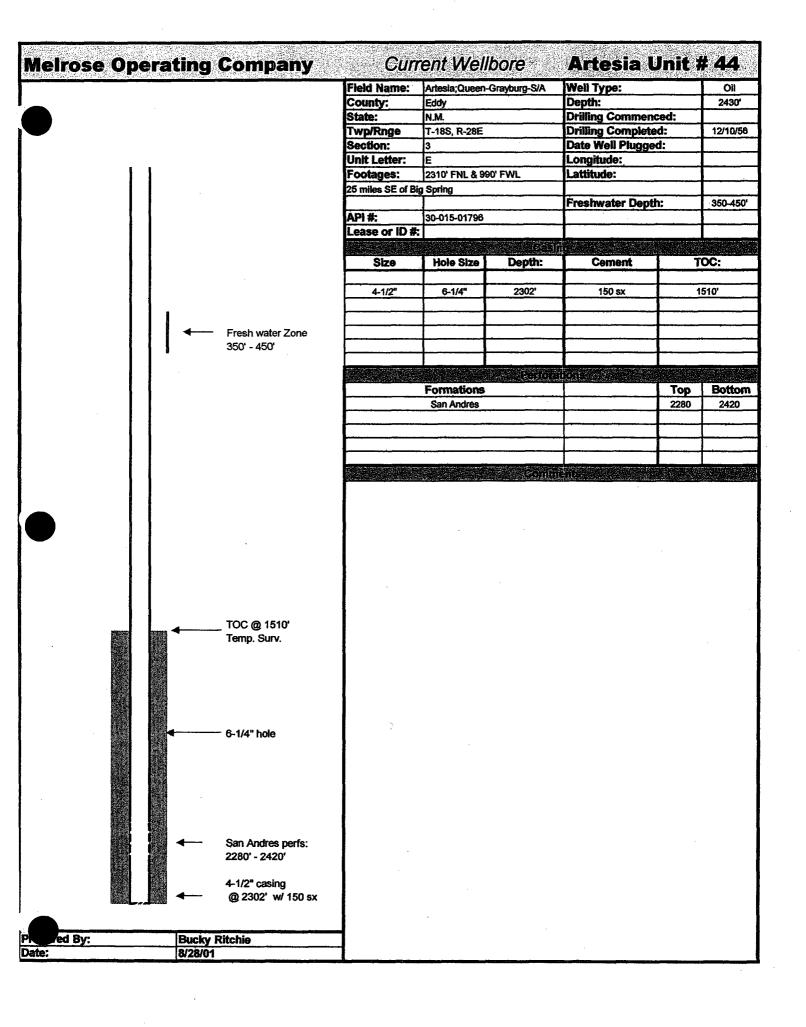


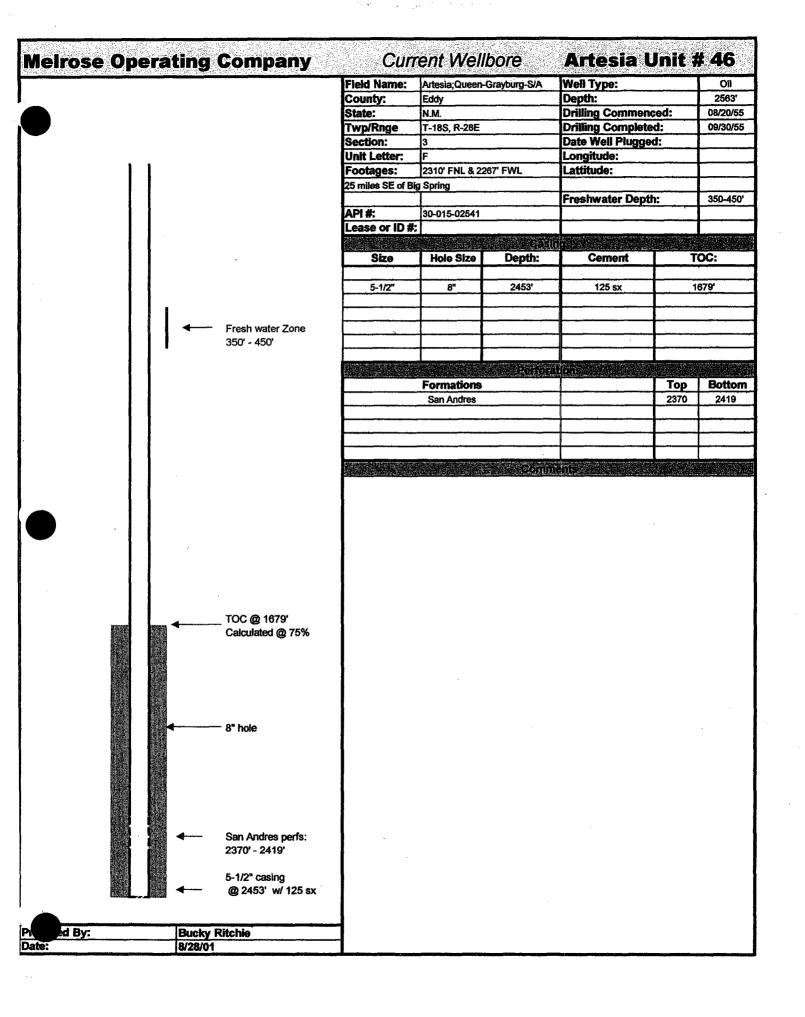


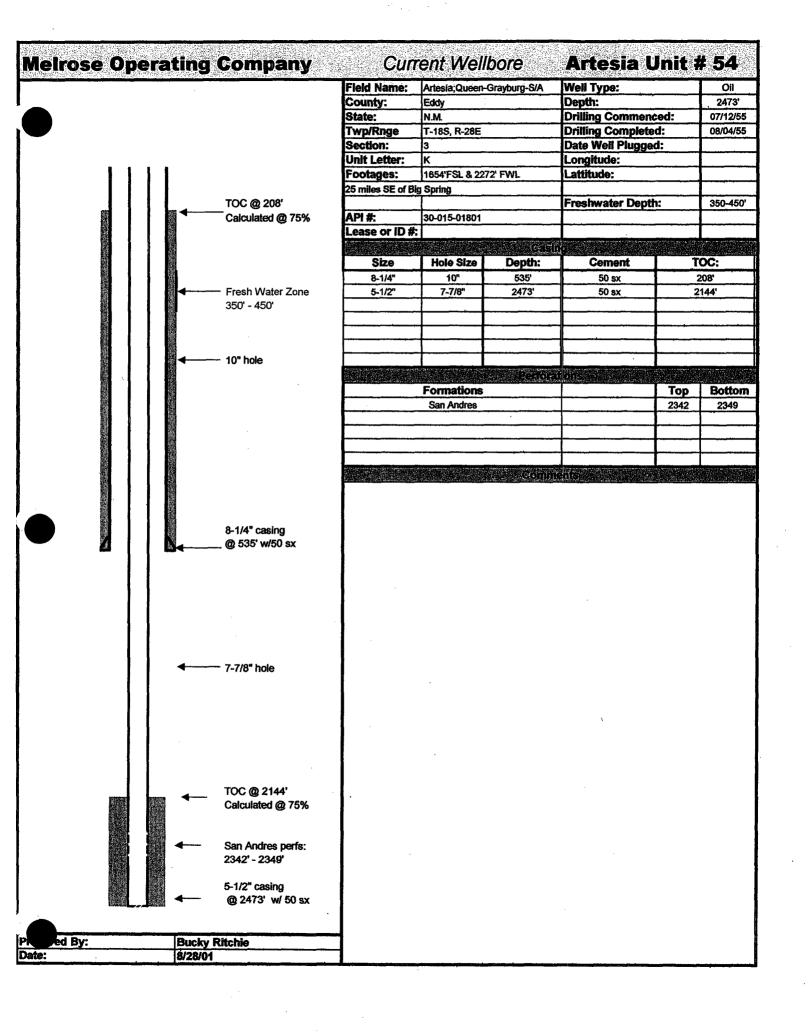


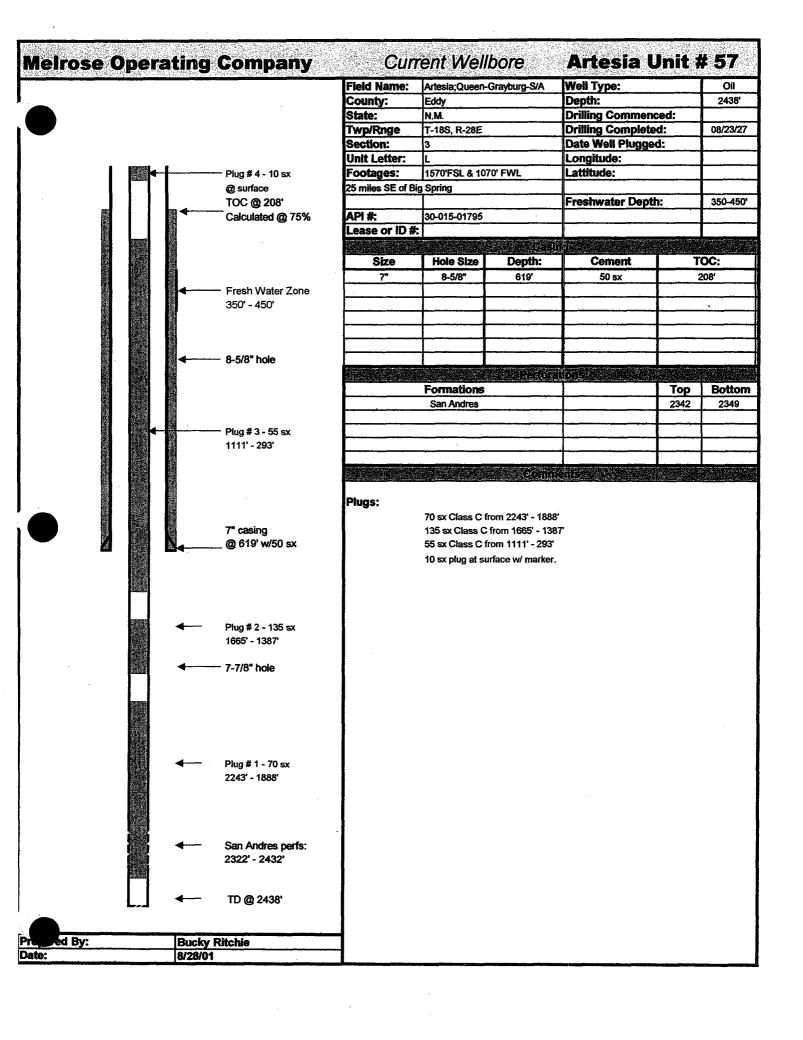












AUG-16-2001(THU) 13:57 BJ ARTESIA

Anthony J. Beilman

P. 001/001

TO: Robert Lee

B J Services Water Analysis									
Artesia	Olstrict La (506)-746-31								
Date: 27-Jul-01 Company: Moltase Operating Lease: Water Well State: N.M. Oapth:	Test#: Well #: County: E Formation; Source:	ddy							
pH: 9.4 Specific Gravity 1.00	T	emp (F):	/7.2						
CATIONS Sodium (calc.) Colcium Magnosium Berlum Polassium Iron	mg/l 2280 461 243 < 25 < 10	ma/i 99.2 24.0 20.0 —	2269 479 242						
ANIONS Chloride Sulfate Carbe note Bloarbe nate	4800 299 < 1 122	135.4 6.2  2.0	4776 297  121						
Total Dissolved Solids(calc.) Total Hardness as CaCO3	8226 2202	44.0	6165 2191	:					
COMMENTS: SCALE ANALYSIS:									
CaCO3 Fedor 58706.4	l Culcium Carbon ) Calcium Suifain			Remale Remale					
	Stiff Pa	yl.							
SD SD 40 30 Ns 6 K Ce Mg	20 10 00	10 20	36 46 (1) (2) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2)	So so Ci HCOS SO4					

Approximate depth 180'

November 21, 1997 Pro-Kem, Inc. SDX Resources Artesia Unit Injection Pump

#### Volume Filtered = 575 ml.

#### 0.45 Micron Membrane Filter Evaluation

=======================================	=======	=======================================
	mg/L.	% of Total
Hydrocarbons	17.2	30.84%
Carbonates	31.7	56.70%
Iron Iron Sulfide, Iron Oxide, Etc.	5.0	9.03%
Insolubles Sand, Silt, Calcium Sulfate, Etc.	1.9	3.43%
Total	55.8	100.00%

Microscopic examination of the residues after leaching with 15% HCl revealed the presence of the following: Small amounts of undissolved Iron Sulfide along with what appears to be Calcium Sulfate.

# Pro-Kem, Inc.

MAY 3 0

# WATER ANALYSIS REPORT

AMPLE

Oil Co. : SDX Resources Lease : Artesia Unit Well No.: Heater Treater Lab No. : 

## ANALYSIS

МУПТОТО	
1. pH 6.000 2. Specific Gravity 60/60 F. 1.090 3. CaCO <sub>3</sub> Saturation Index @ 80 F0. @ 140 F. +0.	197 683
Dissolved Gasses	MG/L EQ. WT. *MEQ/L
4. Hydrogen Sulfide 5. Carbon Dioxide Not Det 6. Dissolved Oxygen Not Det	80 cermined cermined
Cations	
7. Calcium (Ca++) 8. Magnesium (Mg++) 9. Sodium (Na+) (Calculated) 10. Barium (Ba++) Not Det	4,208 / 20.1 = 209.35 2,127 / 12.2 = 174.34 39,677 / 23.0 = 1,725.09 termined
Anions	
11. Hydroxyl (OH-) 12. Carbonate (CO <sub>3</sub> =) 13. Bicarbonate (HCO <sub>3</sub> -) 14. Sulfate (SO <sub>4</sub> =) 15. Chloride (Cl <sup>1</sup> )	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6. Total Dissolved Solids 17. Total Iron (Fe) 18. Total Hardness As CaCO <sub>3</sub> 19. Resistivity @ 75 F. (Calculated)	121,982 14 / 18.2 = 0.77 19,267 0.066 /cm.
LOGARITHMIC WATER PATTERN *meq/L.	PROBABLE MINERAL COMPOSITION COMPOUND EQ. WT. X $*meq/L = mg/L$ .
Na MHH MHH MHH HHM HHM HHM C1	Ca(HCO <sub>3</sub> ) <sub>2</sub> 81.04 9.59 777
Ca will will will till till till till till	CaSO <sub>4</sub> 68.07 69.67 4,743
Mg              SO4	CaCl <sub>2</sub> 55.50 130.09 7,220
Fe	Mg(HCO <sub>3</sub> ) <sub>2</sub> 73.17 0.00 0
Calcium Sulfate Solubility Profile	MgSO <sub>4</sub> 60.19 0.00 0
3118 3096 3002	MgCL <sub>2</sub> 47.62 174.34 8,302
3068 3054 7 3040	NaHCO <sub>3</sub> 84.00 0.00 0
1926 3912 2998	NaSO <sub>4</sub> 71.03 0.00 0
2984 2978 Temp °F. 56 78 90 110 130 150 170	NaCl 58.46 1,723.28 100,743 *Milli Equivalents per Liter

water is somewhat corrosive due to the pH observed on analysis. corrosivity is increased by the content of mineral salts, and the presence of H2S in solution.

# Pro-Kem, Inc. WATER ANALYSIS REPORT

Oil Co. : SDX Resources

Lease : Yates Drilling well

Well No.:

Lab No. :

Sample Loc.

Date Analyzed: 07-May-1996

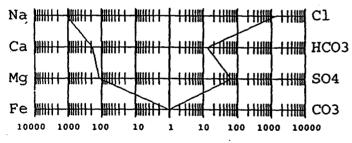
Date Sampled:

### ANALYSIS

1. 2. 3.	pH Specific Gra CaCO <sub>3</sub> Satura	avity 60, ation Ind	6.300 1.063 dex @ 80 F0.045 @ 140 F. +0.880		
D	issolved Gass	ses	MG/L	EQ. WT.	*MEQ/L
4 . 5 . 6 .	Hydrogen Su Carbon Diox Dissolved O	lfide ide kygen	150 Not Determined Not Determined		
<u>c</u>	ations	•			
7. 8. 9. 10.	Calcium Magnesium Sodium Barium	(Ca++) (Mg++) (Na+) (Ba++)	3,507 1,398 (Calculated) 25,552 Not Determined	/ 20.1 = / 12.2 = / 23.0 =	174.48 114.59 1,110.96
A	nions				
11. 12.	Hydroxyl Carbonate	(OH-) (CO <sub>3</sub> =)	0 0	/ 17.0 = / 30.0 =	0.00

766 3,050 46,989 Bicarbonate Sulfate Chloride (HCO<sub>3</sub><sup>2</sup>) (SO<sub>4</sub><sup>2</sup>) (Cl<sup>2</sup>) 12.54 62.50 1,323.63 Total Dissolved Solids Total Iron (Fe) Total Hardness As CaCO<sub>3</sub> Resistivity @ 75 F. (Calculated) 81,262 / 18.2 = 0.14

# LOGARITHMIC WATER PATTERN \*meq/L.



### Calcium Sulfate Solubility Profile

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.121 /cm	•		
PROI COMPOUNI	BABLE MINE D EQ. WI	RAL COMPOS . X *meq/L	ITION = mg/L.
Ca (HCO	3) <sub>2</sub> 81.04	12.54	1,016
CaSO4	68.07	62.50	4,254
CaCl <sub>2</sub>	55.50	99.44	5,519
Mg (HCO	3) <sub>2</sub> 73.17	0.00	0
MgSO4	60.19	0.00	0
MgCL <sub>2</sub>	47.62	114.59	5,457
NaHCO3	84.00	0.00	0
NaSO4	71.03	0.00	0
NaCl *Mi		1,109.60 lents per	_

water is slightly corrosive due to the pH observed on analysis. brrosivity is increased by the content of mineral salts, and the presence of H2S in solution.

# Comparison Between Two Waters

07-May-1996

o: Pro-Kem, Inc.

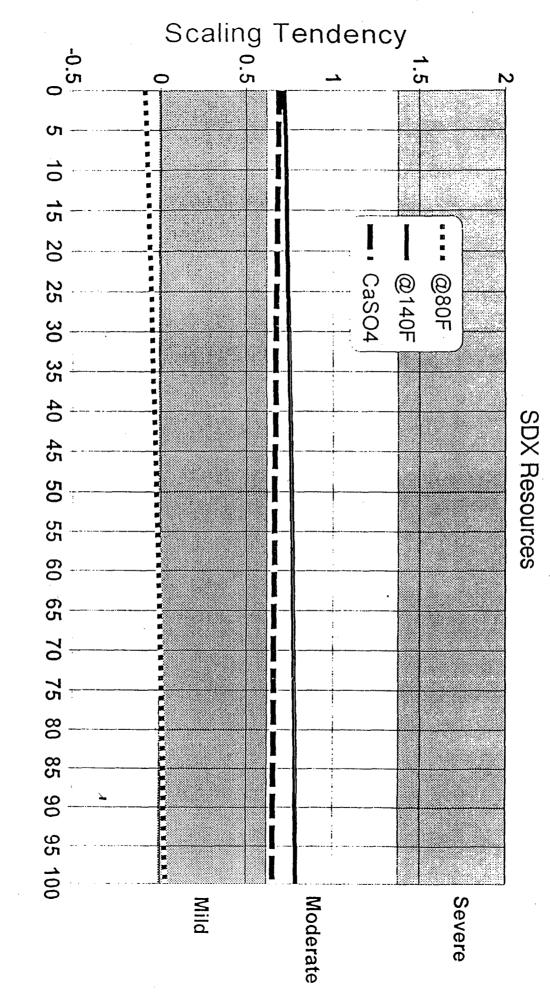
Company : SDX Resources

Sample # 1
Artesia Unit H/T

Sample # 2
Yates Drilling Well

			•				
Percer			TDS			on Index	Calcium Sulfate
#1 &	#2	Нg	mg/L	SpGr	@80°F.	@140°F.	Scaling Potential
100 -	0	6.000	121982	1.090	-0.092	+0.722	Mild to Moderate
95 -	5	6.015	119946	1.089	-0.084	+0.727	Mild to Moderate
90 -	10	6.030	117910	1.087	-0.077	+0.732	Mild to Moderate
85 -	15	6.045	115874	1.086	-0.070	+0.736	Mild to Moderate
80 -	20	6.060	.113838	1.085	-0.063	+0.740	Mild to Moderate
75 -	25	6.075	111802	1.083	-0.057	+0.744	Mild to Moderate
70 -	30	6.090	109766	1.082	-0.050	+0.748	Mild to Moderate
65 -	35	6.105	107730	1.081	-0.044	+0.752	Mild to Moderate
60 -	40	6.120	105694	1.079	-0.037	+0.756	Mild to Moderate
55 -	45	6.135	103658	1.078	-0.031	+0.760	Mild to Moderate
50 -	50	6.150	101622	1.077	-0.025	+0.763	Mild to Moderate
45	55	6.165	99,586	1.075	-0.019	+0.767	Mild to Moderate
	60	6.180	97,550	1.074	-0.013	+0.770	Mild to Moderate
3	65	6.195	95,514	1.072	-0.007	+0.773	Mild to Moderate
30 -	70	6.210	93,478	1.071	-0.002	+0.776	Mild to Moderate
25 -	75	6.225	91,442	1.070	+0.004	+0.779	Mild to Moderate
20 -	80	6.240	89,406	1.068	+0.009	+0.782	Mild to Moderate
15 -	85	6.255	87,370	1.067	+0.015	+0.785	Mild to Moderate
10 -;	90	6.270	85,334	1.066	+0.020	+0.788	Mild to Moderate
5 -	95	6.285	83,298	1.064	+0.025	+0.790	Mild to Moderate
0 -	100	6.300	81,262	1.063	+0.030	+0.793	Mild to Moderate

Mixture of Makeup and Produced Water



Percentage of Yates Drilling Water

### Plugged and Abandoned Wells Within ½ Mile of Melrose Operating Artesia Unit C-108 Injection Application Eddy County, NM

- Vastar Resources
   Empire Abo Unit C #38
   T-17-S, R-28-e, Section 26
   API # 30-015-01553
   1650 FSL & 1980 FWL
- 2. BP Amoco Empire Abo Unit B # 39 T-17-S; R-28-E, Section 26 API # 30-015-01559 2310 FSL & 1980 FEL
- Marbob Energy
   N.G. Phillips #5
   T-17-S, R-28-E, Section 27
   API # 30-015-01573
   1650 FSL & 1650 FEL
- 4. Vastar Resources
  Empire Abo Unit D # 35
  T-17-S, R-28-E, Section 27
  API # 30-015-01590
  330 FSL & 1980 FEL
- Marbob Energy
   N.G. Phillips #3
   T-17-S, R-28-E, Section 27
   API # 30-015-01571
   330 FSL & 330 FEL
- 6. Marbob Energy
  Amoco State C #1
  T-17-S, R-28-E, Section 34
  API # 30-015-01701
  344 FNL & 1650 FEL
- 7. Vastar Resources
  Empire Abo Unit G # 36
  T-17-S, R-28-E, Section 34
  API # 30-015-01706
  2310 FSL & 990 FEL
- 8. Arco
  Empire Abo Unit #35
  T-17-S, R-28-E, Section 34
  API # 30-015-01703
  970 FSL & 2274 FEL

- 9. Phillips
  Carper-Levers #3
  330 FSL & 1650 FWL
  API # 30-015-01722
  330 FSL & 1650 FWL
- 10. Vastar Resources
  Empire Abo Unit E #381
  T-17-S, R-28-E, Section 35
  API # 30-015-21536
  1155 FNL & 2475 FWL
- 11. Vastar Resources
  Abo Unit E # 373
  T-17-S, R-28-E, Section 35
  API # 30-015-22462
  150 FNL & 15 FWL
- 12. Vastar Resources
  Empie Abo Unit F # 372
  T-17-S, R-28-e, Section 35
  API # 30-015-22137
  2490 FNL & 1100 FWL
- 13. Artesia Unit #20 T-17-S, R-28-E, Section 35 API # 30-015-02126 330 FEL & 2310 FSL
- 14. Dekalb Energy
  Artesia Unit #30
  T-17-S, R-28-E, Section 35
  API # 30-015-01743
  990 FSI & 2310 FEL
- 15. SDX Resources
  Artesia Unit #16
  T-17-S, R-28-E, Section 36
  API # 30-015-01759
  1980 FNL & 660 FWL
- 16. Chambers, Kemed & AH Haden
   Delhi- Taylor State #1
   T-17-S, R-28-E, Section 35
   API # 30-015-07310
   660 FSL & 1980 FWL
- 17. Hondo-Western
  State A #41
  T-17-S, R-28-E, Section 35
  API # 30-015-01741
  2310 FSL & 2310 FEL

- 18. Welch
  Mry-State #4
  T-17-S, R-28-E, Section 35
  API # 30-015-01757
  990 FNL & 2310 FWL
- 19. Depco
  Artesia Unit #12
  T-17-S, R-28-E, Section 35
  API # 30-015-01730
  1650 FNL & 660 FWL
- 20. Welch
  State #1
  T-17-S, R-28-E, Section 35
  API # 30-015-01729
  2310 FNL & 250 FWL
- 21. Hughes
  State A #43
  T-17-S, R-28-E, Section 36
  API # 30-015-02153
  330 FNL & 1650 FWL
- 22. Donnelly Drilling
  Sinclair State B #3
  T-17-S, R-28-E, Section 36
  API # 30-015-01765
  660 FSL & 1980 FEL
- 23. Johnston
  Five #4
  T-17-S, R-28-E, Section 36
  API # 30-015-10544
  1650 FNL & 660 FEL
- 24. Dekalb Energy
  Artesia Unit #57
  T-18-S, R-28-E, Section 3
  API # 30-015-01795
  1570 FSL & 1070 FWL
- 25. SDX Resources
  Artesia Unit #61
  T-18-S, R-28-E, Section 3
  API # 30-015-02550
  660 FSL & 2310 FEL
- 26. Melrose
  Artesia Unit #66
  T-18-S, R-28-E, Section 3
  API # 30-015-20322
  1550 FNL & 1950 FWL

- 27. Flynn Welch State 647 #42 T-18-S, R-28-E, Section 3 API # 30-015-01794 2390 FSL & 1070 FWL
- 28. Flynn-Welch State 647 #41 T-18-S, R-28-E, Section 3 API # 30-015-01793 1570 FSL & 250 FWL
- 29. Fina Oil & Chemical Humble Stout State #1 T-18-S, R-28-E, Section 4 API # 30-015-02590 2310 FSL & 330 FEL
- 30. Fina
  Levers State #5
  T-18-S, R-28-E, Section 4
  API # 30-015-02573
  1070 FSL & 1570 FEL
- 31. McGonagille
  Carper State #1
  T-18-S, R-28-E, Section 4
  API # 30-015-02557
  330 FNL & 330 FEL
- 32. Maloney & Chambers (No Ployer & Reports)
  State #1
  T-18-S, R-28-E, Section 4
  API # 30-015-02559
  2390 FNL & 1070 FEL
- Frontier Petroleum
   McQuigg #5
   1570 FSL & 1570 FEL
   T-18-S, R-28-E, Section 4
   API # 30-015-02565
- 34. Sunray DX Oil
  Bookman State #1
  T-18-S, R-28-E, Section 4
  API # 30-015-02560
  1570 FSL & 1070 FEL
- 35. BP Amoco
  Empire Abo Unit #19
  T-17-S, R-28-E, Section 36
  API # 30-015-22543
  2280 FNL & 660 FEL

#### **WELLBORE SCHEMATIC**

BP Amoco
Empire Abo Unit C #38
1650 FSL & 1980 FWL
Section 26-17s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 6,310 feet
API #30-015-01553
Date Drilled: 7/8/60
Status:

Casing: 8 5/8"

Hole Size:

Depth: 720' Cement: 375 sx 15 sx @ 120- 0'

25 sx @ 880-634'

25 sx @ 1360-1119'

40 sx @ 2170-1776'

25 sx @ 3588-3347'

CIBP @ 5935' w/ 25 sx cmt

Perfs @ 6198-6224'

Casing: 5 1/2"

Hole Size:

0.04

Depth: 6,310' Cement: 340 sx

TD: 6,310'

04-2001 TUE 11122	am ocd district II		1. 32.25	P JUL	3 1960 #1	• •
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THH	H	Office Oil Con	Commission Commission	on to which remains or instructions in Rule or I. State Land of	101 wet Explanded used & Copies	
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APPROVED BY

CONDITIONS POR APPROVAL D

#### **WELLBORE SCHEMATIC**

**BP Amoco** Empire Abo Unit B #39 2310 FSL & 1980 FEL Section 36-17s-28e Eddy County, New Mexico **Ground Elevation:** 

> **Total Depth:** API #30-015-01559

Date Drilled:

Date Plugged: 12/20/82

Casing:

8 5/8"

Hole Size:

742'

Depth: Cement: 350 sx Cmt plug from 156' to 0'

Cmt plug from 578 to 900'

Set retainer @ 3649' & sqz w/ 150 sx cmt. Dump 50' on top of retainer Perfed 3809-4030'

Casing: 5 1/2"

Hole Size:

6,347' Depth:

Cement: 180 units HYS 400

& 150 sx 2% gel

TD:

6347'

Squeezed Abo perfs w/ 350 sx cmt and dumped

50' cmt on retainer set @ 6073'

Perfs @ 6127-6220'



SANTA FE. NEW MEXICO 87501	STATE OF NEW MEXICO -			#2	
SANTA FE. NEW MEXICO 87501    Santa FE. NEW MEXICO 87501   Santa FE. NEW MEXICO 87501   Santa FE. NEW MEXICO 87501   Santa FE. NEW MEXICO 87501   Santa FE. New Mexico 87501   Santa FE. New M				20-015-0	199
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Thereby certify these the information above to true and complete to the best of my knowledge and belief.  1. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed my by a see must 1400.  1. Rigged up on 10/11/82. Installed BOP. Rel pkr & POH. Drld & CO to 6223'. Set cmt retr @ 6073'. Cm squad Abo perfs 6127-6220' w/200 sx Cl"C" cmt on vac. Cleared cmt, WOC 4 hrs. Sqz cmt d thru retr @ 6073' w/150 sx Cl"C". Final press. 1200#. Dumped 50' cmt on top of retr. Set pkr @ 3650', press annulus to 1000# for 30 mins. OK. POH w/pkr. Set cmt retr @ 3649'. Sqz cmt perfs 3809-4030' w/150 sx Cl"C" neat cmt. Final agz press 1500#. Dumped 50' cmt on top of retr. Circ 10# brine wtr to 900'. Spot Cl"C" cmt plug 900-600'. WOC. Tagged cmt plug w/tbg @ 578'. OK. Spot Cl"C" cmt plug 156' to surf. Cut off wellhead below ground level. Install regulation dry hole marker. Clean and level location. P&A eff: 10/19/82. Final Report.  3. I bereby certify these the information above to true and complete to the best of my knowledge and belief.  3. I bereby certify these the information above to true and complete to the best of my knowledge and belief.  3. I bereby certify these the information above to true and complete to the best of my knowledge and belief.	PULL OD ALTER CABING	CHANCE PLANS	·	· 	
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201 11/83	HERE SEE ABOVE A. D	TITLE			
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	7		MUDDING	AND CEMENT	ING RECORD		
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8-5/8				FLORE	• •		Surface
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	·			CASING RECO	RD		A Section 1
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Name of Da	illing Contra	£ <b>6</b> 7		Tates Dri Carper Bl			**************************************
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f		(Company or Open	nator)		<u> </u>	Shahe (Lose)	
100	AREA 640 AC	RECECTLY		٠. ا			Light see the
			later than tw	esty days after	completion of w	ell Follow instruc	CATE Multiprop Regulations London Submit 6 Copie
			Mail to Dist	rict Office, Oil	Conservation C	caminia, to wh	ich Flora Lilli, was sent
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					Banta Pe,		
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# 01559

### NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103 (Rev 3-55)

### MISCELLANEOUS REPORTS ON WELLS

		(	Submit to appropri	ate Distric	1 Office	as per Com	mission R	/i= 1106)	
Name of Con	npany				Ad	ldress			
	ondo-Weste	rn-I	ates					is, New Max	100
Lease			W		Unit Let	<b>J</b>	Township		Rabse
	tata (A)			45	G		17-	<u>s</u>	
Date Work P	enomed ea below		Pool Ennire	lha		j	County <b>R</b> A	dv	*
					OF: (Cb	eck appropria			
☐ Begina	ing Drilling Og	PETATIO	ns Cas	ing Test and	Cement	Job	Other (	Explain):	
Pluggia	ng ·		☐ Rem	cdial Work		•			<u> </u>
Detailed acc	ount of work d	овс, д	sture and quantity of	marerials u	sed, and	results obta	iaed.		
<b>12-</b> 3	12-13-61 Ren 742' of 8-5/8" OD 24# used caming, comented with 350 sks. regular neat coment 2% C.C.								
1-	7-62		6347' of 5-1/2 units of HTS						ith
2-	10-62	Ran	6215' of 2" E	UB 4.70#	J-55	netr enle	tubing.		٠.
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Witnessed by				Position	P,		Company	- AIT 6 A-	
A.	J. Deans		FILL IN BELO			Supt.		do 011 & Gar	Company
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D F Elev.		TD		PBTD			Producing	loterval	Completion Date
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Perforated In	terval(s)								
Open Hole In	tervel				Prod	luciag Forms	tion(s)		
				RESULTS	OF WO	RKOVER			
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After Vorkovet					******				
	OIL CONS	ERYA'	TION COMMISSION			the best of a			bove is true and complete
Approved by	ms	On	mstron		Ne		rus be	Smiles	mon_
ile	OIL ABI		, <u> </u>		Po	sirjon	Prod. S	. 20	
Date FEB 2 6 1962				Co	mpany Ilonda	- 3.	es Company		

VELL NAME: N.G. Phillips State

**WELL NO: 5** 

LOCATION: 1650' FSL 1650' FEL Unit: J Section: 27 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01573

POOL: Artesia Queen Grayburg San Andres

DATE P&A: 12/28/92

10 sx cmt plug @ surface 25 sx cmt plug @ 610' **Surface Casing:** Depth: 555' **Hole Size:** 12-1/4" Size & Weight: 8-5/8" 24# Cmt./Sx. N/A

25 sx cmt plug @ 900'

25 sx cmt plug @ 1600'

25 sx cmt plug @ 1970' & 25 sx cmt plug@1910', Tag @ 1826'.

Perfs: 2024'-2034'

Form:

**Production String:** Depth:

2057

Hole Size:

7-7/8"

Size & Weight:

5-1/2"15.5#

Cmt\_/Sx.

350 sx

TD: 2062'

r. 11

!				
Submit 3 Copies to Appropriate District Office	Energy, Minerals and Na	tural Resources Department	∰ ⊕ ∜ 1593 • <b>C. D.</b>	Form C-103 Revised 1-1-89
DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVA P.O. B	ATION DIVISION	WELL API NO.	<del></del>
DISTRICT II P.O. Drawer DD, Arceia, NM 88210	Santa Fe, New M	lexico 87504-2088	5. Indicate Type of Leas	STATE X FEE
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410			6. State Oil & Gas Lease B-2071	
SUNDRY NOT	ICES AND REPORTS O	N WELLS		
( DO NOT USE THIS FORM FOR PRODUCTION OF COMMON COM	OPOSALS TO DRILL OR TO DRIVE O	DEEPEN OR PLUG BACK TO A POR PERMIT	7. Lease Name or Unit A	greement Name
1. Type of Well: Oil. X Well Mell	/ OTHER		N.G. Phillip	s State
2 Name of Operator Marbob Energy Corpora	tion		8. Well No.	•
3. Address of Operator	CIOII		9. Pool name or Wildcat	
P.O. Drawer 217, Artes	sia. NM 88210		Artesia Queens	Grbg SA
Unit Letter _J : 165	O Feet From The South	Line and 16	50 Feet From The	East L
Section 27	Township 17-S	Range -38-E 28	NMPM Eddy	County
		whether DF, RKB, RT, GR, etc.)		
Summer Charles	3654 G	<del></del>	Parama an Oshar Date	
NOTICE OF INT		licate Nature of Notice, F	REPORT OF OTHER DATE	
NO TICE OF IN	TENTION TO.	500	SECUCIVI NEFC	ORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	L. REMEDIAL WORK	ALTE	RING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLIN	IG OPNS. 🔲 PLUG	AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB	
OTHER:		OTHER:		
12. Describe Proposed or Completed Opera work) SEE RULE 1103.	tions (Clearly state all pertinent d	letails, and give pertinent dates, incl	uding estimated date of startin	g any proposed
1) Spot 25 sacks cement cement at 1910' W.O.	plug at 1970' W.O C. tag plug at 18	.D. run tubing did	not tag plug res	pot 25 sacks o
2) Load hole W/mud	+ -1+ 16001			
<ul><li>3) Spot 25 sacks cement</li><li>4) Spot 25 sacks cement</li></ul>				
5) Spot 25 sacks cement	: plug at 610'			P. + ID-2
6) Spot 10 sacks cement	plug at surface			Post I0-2 1-15-93
				PVA
				1 4 14
	÷			
I hereby certify that the information above is tru	s and complete to the best of my know	ledge and belief.		00-00
SIGNATURE A LIGHT BY	YCLC+ 6KG	_ me Supervisor	DA	TE 12.28-92
TYTE OF PRINT HAND			ए	EPHONE NO.
(This space for State Use)	./			
to the	4	ner ryn 100 t	, , , , , , , , , , , , , , , , , , ,	APR 2 9 1993

FELL NAME: Empire Abo Unit "D"

WELL NO: 35

LOCATION: 330 FSL 1980 FEL Unit: O Section: 27 TWNS; T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01590

DATE P&A: 8/28/87

POOL: Empire Abo

75 sx cmt plug from 0-850°

**Surface Casing:** 

Depth: Hole Size:

732 12-1/4"

Size & Weight:

8-5/8" 24#

Cmt./Sx.

400

25 sx cmt plug from 1135-1425'

25 sx cmt plug from 1860-2150'

CIBP @ 5900', 30 sx cmt plug from 5550-5900'

Perfs: 6114'-6138'

Form: Abo

**Production String:** 

Depth:

6240'

**Hole Size:** 

7-7/8"

Size & Weight:

4-1/2" 9.5#

Cmt./Sx.

900 sx

TD: 6240'

AUG-25-2000 FRI 01:11 PM OCD DISTRICT II FAX NO. 15057489720 ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVIS. JNRECEIVED 40. 40 EBOIES SECTIONS DISTRIBUTION P. O. BOX 2088 BANTA FE SANTA FE, NEW MEXICO 87501 FILE Indicate Type of Lease V.1.6.1. State X LAND OFFICE DEFICE OIL & Gas Lease No. PPERATOR ARTESIA. B-2071 SUNDRY NOTICES AND REPORTS ON WELLS عبيد [ Gas Injection . J. Name of Operated 8. Fam or Lease ligme ARCO Oil and Gas Company Empire Abo Unit " S. Well No. P.O. Box 1610, Midland, Texas 79702 35 i 4. Lecesion of Well 10. Field and Pool, or "ndc"
Empire Abo South 1980 330 175 28E 74-4-10 ... 15. Elevation (Show whether DF. RT. GR. etc.) Eddy 3672 GR Check Appropriate Box To Indicate Nature of Notice, Report of Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: ALTERING CABING 17. Describe Proposed or Completed Operations (Clearly state all perturent details, and give pertinent dates, including estimated date of starting any work) SEE MULE 1981. 8-26-87. RUPU. P&A'd as follows: Plug Interval Cmt Remarks 1 5550-5900 xe 06 Set CIBP at 5900. Loaded hole w/mud. Spot 30 cmt f/5900-5550. 2 1860-2150 25 sx Spot 1135~1425 25 ax Spot 0-850 75 sx Spot Cut off wellhead. Installed dry hole marker. P&A'd 8-28-87

18. 2 became certify that the information above to true and complete to the best of the wantledge and belief.						
ALLEN GU Somell	Ingr. Tech. 915-608-5672	9-14-87				
CONDITIONS OF APPROVAL, IF ANY	me bedogist	12/2/67				

ELL NAME: N.G. Phillips State

LOCATION: 330' FSL 330' FEL Unit: P Section: 27 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01571

POOL: Artesia Queen Grayburg San Andres

**DATE P&A: 1/12/84** 

Perforated @ 600', squeezed 150 sx to surface.

**Surface Casing:** 

Depth:

500'

Hole Size: Size & Weight: 12-1/4" 8-5/8" 24#

Cmt./Sx.

N/A

Squeezed csg @ 1050' w/150 sx Cut, shot, tried to pull csg @ 1050'-could not pull.

Perfs: 2082'-2092'

Form:

25 sx cmt plug @ 2100', tagged @ 1875'

**Production String:** 

Depth:

2122

Hole Size:

7-7/8"

· Size & Weight:

5-1/2"15.5#

·· Cmt\_/Sx\_

135 sx

TD: 2133'

		1,7
18. I hereby curtify that the information above is true and com	splete to the best of my kijamledge and beltef.	
Carolyn Oris.	Production Clerk	OATE 1/26/84
Lany Brook	Deologis	3-9-84

WELL NAME: Amoco State "C"

WELL NO: 1

LOCATION: 344' FNL 1650' FEL Unit: B Section: 34 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01701

POOL: Artesia Queen, Grayburg

DATE P&A: 2/18/87

Perfed @ 600', circulated 150 sx cmt to surface

**Surface Casing:** 

Depth: Hole Size: 594' 12-1/4"

Size & Weight:

8-5/8" 24#

Cmt./Sx.

50 sx

Perfed @ 1400', squeezed w/75 sx, tagged @ 1000'

Set 50 sx plug @ 2130', tagged @ 1781'

Perfs: 2064'-2074'

Form:

200-4-207

**Production String:** 

Depth:

2180'

Hole Size:

7-7/8"

Size & Weight:

5-1/2"15.5#

Cmt./Sx.

100 sx

TD: 2208'

AUG-25-2000 FRI 01:07	7 PM OCD DISTRICT	İİ	FAX NO. 15057489720	P. 06
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2. Home of Operator	41,444			8, Form or Lease Harr
Marbob Energy Con	rporation			Amoco St. C
3. Address of Operator			•	9. Well No.
P.O. Drawer 217,	Artesia, N.M. 8	8210	·	1
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BRIL PELLEN		North North	LINE AND	Artesia On Gi
East	HE, MECTION 34	175	28E	
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	15. EI•	vation (Show whicher		12. County
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17, Describe Proposed or Com	pleted Operations (Clearly	state all pertinent det	alls, and give pertinent dates, in	cluding extinated date of starting
work) BEE RULE 1901.		-	•	-
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perforated 2 h	oles @ 1400', squ	eezed w/75 sa	ck plug @ 2129.72', x; tagged @ 1000'; p urface; installed di	erforated 2
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	•			Post ID- 2-27-2
•				2-27-2
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<b>\</b>				
B. I hereby comify that the inf	ormatton above to true and	complete to the best o	f my knowledge and belief.	
(11. 1)	ر مرم	.*		~ ·
Marca ( BA Sel A)	Junge Ula	TITLE	Production Clerk	9075

..... QIL AND GAS INSPECTOR

JAN 12

WELL NAME: Empire Abo Unit "G"

LOCATION: 2310 FSL 990 FEL Unit: I Section: 34 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01706 **DATE P&A: 12/9/88** DATE DRILLED: 5/2/60

Perfs: 6196'-6216'

Form:

**POOL: Empire Abo** 

0-250' · 25 sx plug **Surface Casing:** Depth: 739' Hole Size: 12-1/4" Size & Weight: 8-5/8" 24# Cmt./Sx. 250 620-1793' - 120 sx plug

1793-1900' - 140 sx plug

2175-2300' - perf @ 230'/50 sx; CR @ 2199' w/5 sx-top

3733-3650' spot 25 sx plug

Set CIBP @ 6150', spot 45 sx cmt on top-5800'

**Production String:** 

Depth: 6459

Hole Size:

7-7/8"

Size & Weight:

5-1/2"

Cmt./Sx.

450

TD: 6459'

			06
	· 327	'	Form C-103
Energy, Minerals and Na	niral Resources Department		Revised 1-1-89
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OIL CONSERVA	ATION DIVISION	INTEL APINO	
PO Box 2088			706
Santa Fe, New M	lexico 87504,20880		
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$\mathcal{M}_{\cdots}$	L. J.	<del>. /-</del>	6/13/89
	Energy, Minerals and Na OIL CONSERVA P.O. B Santa Fe, New M Santa Fe, New M CES AND REPORTS OF PROSALS TO DRILL OR TO D POSALS TO D POSALS TO DRILL OR TO D POSALS TO DRILL OR TO D POSALS TO D POSALS TO DRILL OR TO D POSALS	Santa Fe, New Mexico 875042088g  O. C. D.  APTESIA OFFICE  CES AND REPORTS ON WELLS  POSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  MOR. USE 'APPLICATION FOR PERMIT'  1011 FOR SUCH PROPOSALS.)  OTHER  ANY  Ind. Texas 79702  Feel From The South Line and 990  Township 17S Range 28E  Appropriate Box to Indicate Nature of Notice, R  ENTION TO: SUB  PLUG AND ABANDON REMEDIAL WORK  CHANGE PLANS CAMMENCE DRILLING  CASING TEST AND CE  OTHER:  IORS (Clearly More all persinent details, and give persinent dates, included as follows:  t Remarks  5 sx Set CIBP at 6150. Spot 45 sx  5 sx Spot balanced plug.  O sx Perf at 2300, CR at 2199 w/5  Water flow out 5-1/2 csg. sh  O sx Perf at 1900. CR at 1793.  O sx Spot  talled dry hole marker. P&A'd 12-9-8:  Indicate to the box of my incombining and belief.  Thus Engr. Tech.  1915	CIL CONSERVATION DIVISION P.O. Box 2088 Santa Fc, New Mexico 87504-2089  Santa Fc, New Mexico 87504-2089  O. C. D.  O. Suits Type of I  O. C. D.  O. C. D.  O. C. D.  O. Suits Type of I  O. C. D.  O. C. D.  O. C. D.  O. C. D.  O. C. D.  O. Suits Type of I  O. C. D.

#### **WELLBORE SCHEMATIC**

Arco

Empire Abo Unit #35

970 FSL & 2274 FEL

Section 34-17s-28e

Eddy County, New Mexico

**Ground Elevation:** 

Total Depth: 6,299 feet

API #30-015-01703

Date Drilled: 4/3/60

Date Plugged: 5/11/90

Casing:

8 5/8" Hole Size:

538'

Depth: Cement: 50 sx Plug #6 0-856 730 sx

Casing: 5 1/2"

Hole Size:

Depth:

6289'

Cement: 200 sx

Plug #4 2237-2469

Plug #5 1392-1530

25 sx

60 sx

Plug #3 3700-3946 25 sx

25 sx Plug #2 4765-5011

Plug #1 5720-6114 40 sx

CIBP 6114

TD: 6289'

clsr State of New Mexico Submit 3 Copies Energy, Minerals and Natural Resources Department to Appropriate District Office OIL CONSERVATION DIVISION DISTRICT I 2.O. Box 1980, Hobbe, NM \$8240 WELL API NO. P.O. Box 2088 35-015-<del>01715-</del> DISTRICTI Santa Fe, New Mexico 87504-2088 ta Type of Lease P.O. Drawer DD, Artesia, NM \$8210 FEE DISTRICT III
1000 Rio Brazos Rd., Aziec, NM 67410 B11538-1 SUNDRY NOTICES AND REPORTS ON WELLS ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Need OC Chill (Self) DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: MET [ WELL [X] EmpirMECASS '9thit "H" 2. Name of Operator & Well No. <u>o.</u> c.₹55 ARCO OIL AND GAS COMPANY 9. Pool some of Policy OFFICE 3. Address of Operat Empire Abo O. Box 1610, Midland, Texas 79702 O: 969.94 Feet Prom The South Line and 2274.16 Fost From The East 34 Eddy 28E thip 17S Range 28E

10. Elevation (Show whether DF, RKB, RT, GR, etc.) **NMPM** Township Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON ALTERING CASING REMEDIAL WORK PLUG AND ABANDONMENT KX TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. LL OR ALTER CASING CASING TEST AND CEMENT JOB OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent datails, and give partinent datas, including anim work) SEE RULE 1103. 5-9-90. RU PU. P&A as follows: 4-19-Cmt. Plug Interval Remarks Ran ( 5720-6114 40 sx Set CIBP at 6114. Press test csg to 500#. f/5000-4400. Spotted 40 sx on top of CIBP. 25 sx 2 4765-5011 Spot 3 3700-3946 25 sx Perf at 3820. Unable to pump into. Spot 25 sx Cmt. 2237-2469 25 sx Unable to pump into. Spot 25 sx Perf at 2360. Cmt. 5 1392-1530 60 sx Perf at 1530. Set CR at 1434. Sqz'd w/60 sx. Dmpd.42' cmt on CR. Surf- 856 730 sx Cmt csg inside & outside to Surf. Perf at 856. Installed Dry Hole marker. 5-11-90. P&A'd. u is true and complete to the best of my ignormalge and ballet. Ken W Gosnell DATE 12-26-90 me Engr. Tech. TYPEORPHINTHAMS Ken W. Gosnell 915/688-5672 TELEPHONE NO. (This space for State Line)

770.5

OIL AND GAS INSPECTOR

DATE 4-22-91

CONDITIONS OF APPROVAL IF AND

**Phillips** 

Carper-Levers #3 330 FSL & 1650 FWL

Section 34-17s-28e

**Eddy County, New Mexico** 

**Ground Elevation:** 

Total Depth: 2,633 feet API #30-015-01722

Date Drilled: 7/14/53

Date Plugged: 3/5/59

Casing:

8 5/8"

Hole Size:

702'

Depth: Cement:

50 sx

Plug #5 Surface 5 sx

Plug #4

440'

15 sx

Casing:

Hole Size:

Cement:

Depth:

2400'

Plug #3

1450'

15 sx

Knocked off pipe @ 2005'

Plug #2

2005'

15 sx

Shot Lane Wells Plug @ 2312 Swabbed dry, no fluid entry.

Plug #1 TD - 2312

25 sx

TD: 2633'

#### NEW MEXICO OIL CONSERVATION COMMISSION MISCELLANEOUS REPORTS ON WELLS

Torona

1953 (Submit to appropriate District Office as per Commission Rule 1196) N. Gordon Phillips (Address) WELL NO. UNIT ATE WORK PERFORMED POOL March 5. 1959 This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off Beginning Drilling Operations Remedial Work XX Plugging Other Detailed account of work done, nature and quantity of materials used and results obtained. Pebruary 27, and 28, March 1,-Swabbed 2hh Bbls, water 13h Bbls. Oil
March 2, -Shot Lone Wells Plug at 2312, Swabbed and baled dry - no fluid.

March 3, h, & 5-Plugged well

Spotted 25 sack cement plug on bottom-2312'- Knocked off pipe at 2,005.70'-Set

15 sack cement plug in and out of pipe-Pumped mud in hole to 1h50'-Set 15 cock cement
plug-Filled hole to hh0' with mud-Set 15 sack cement plug-Mudded to top- Set 5 sack cement plug and marker. FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data: DF Elev. PBD .. Prod. Int. Compl Date Oil String Dia Thng. Dia Thng Depth Oil String Depth Perf Interval (s) Open Hole Interval Producing Formation (s) RESULTS OF WORKOVER: BEFORE AFTER Date of Test Oil Production, bbls. per day Gas Production, Mcf per day Water Production, bbis. per day Gas-Oil Ratio, cu. ft. per bbl. Gas Well Potential, Mci per day Witnessed by (Company) I hereby certify that the information given **OIL CONSERVATION COMMISSION** above is true and complete to the best of my knowledge. Name. Name Position Title ONL AND SAS INSPECTION Agen t JUN 1 9 1959 Date Company N. Gordon Phillips . Box 638

Artesia, New Mexico

VELL NAME: Empire Abo Unit "E"

**WELL NO: 381** 

LOCATION: 1155' FNL 2475' FWL Unit: C Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-21536

POOL: Empire Abo

DATE P&A: 7/10/92

175 sx cmt plug from 0-1050'

**Surface Casing:** 

Depth:

1000' 12-1/4"

Hole Size:

8-5/8" 24#

Size & Weight: Cmt./Sx.

525 sx

25 sx cmt plug from 1210-1460'

25 sx cmt plug from 1910-2160'

25 sx cmt plug from 3510-3760'

25 sx cmt plug from 4191-4441'

CIBP w/10 sx cmt from 5600-6140'

Perfs: 6236'-6264'

Form:

**Production String:** 

Depth:

6385'

Hole Size:

7-7/8"

Size & Weight:

5-1/2"15.5#

Cmt./Sx.

600 sx

TD: 6385'

State of New Mexico Energy, serals and Natural Resources Department	Form C-103 Revised 1-1-89
District III  P.O. Deswer DD, Artesia, NM 85216  DISTRICT III  P.O. Deswer DD, Artesia, NM 85216  DISTRICT III  DISTRICT III  DISTRICT III  DOC C. D.  DISTRICT III  DOC C. D.  DISTRICT III  DOC C. D.  DISTRICT III  DOC C. D.  DISTRICT DI	WELL API NO.  30-015-21536  5. Indicate Type of Lease  STATE X  6. State Oil & Oas Lease No. 647
SUNDRY NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  (FORM C-101) FOR SUCH PROPOSALS)  1. Type of Welli Other	7. Lease Name or Unit Agreement N. Empire Abo Unit "E"
2. Name of Operator	2. Well No.
ARCO OIL and GAS COMPANY  3. Advers of Operator	381
P.O. Box 1610, Midland, Texas 79702	Pool Name or Wildcat Empire Abo
4. Well Locastion	i i
Unit Letter C: 2475 Feet From The West Line and 1155  Section 35 Township 17S Range 28E NMPM  10. Elevation (Show whether DF, RKB, RT, GR, etc.)  3683.8 GR	Feet from The North  Eddy Cou
	or Other Date
Check Appropriate Box To Indicate Nature of Notice, Report,	
	EQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK  TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS	ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS.  PULL OR ALTER CASING CASING CASING TEST AND CEMENT X	PLUG AND ABANDONMENT
	, h
(Other) (Other)	
7-8-92. RUPU. POH w/CA. Plug & Abandoned as follows:	
Plux Interval Cmt Remarks	
1 5600-6140 10 sx CIBP & cmt. Displaced hole w/10# MLF. 2 4191-4441 25 sx Spot 3 3510-3760 25 sx Spot 4 1910-2160 25 sx Spot 5 1210-1460 25 sx Spot 6 0-1050 175 sx Spot	Put ID-2 9-4-92 Px A
Cut off csg. Installed Dry Hole marker. P&A'd 7-10-92.	
1 % hereby certify that the information above is true and complete to the best of my knowledge and belief	
AKGRATURE Ken Gu Slowell TITLE Regulatory Coording	tor DATE 8-27-92
TYPE OR PRINT NAME KON W. GOSNO!!	TELEPHONE (915) 688-5672
(This space for State Use)	1
APPROVED BY CONDITIONS FOR APPROVAL, IF ANY	DATE 9-k

WELL NAME: Empire Abo Unit "E" **WELL NO: 373** 

OCATION: 150' FNL 15' FWL Unit: D Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-22462

DATE P&A: 7/8/92

.POOL: Empire Abo

100 sx plug from 0-850° **Surface Casing:** Depth: 800'

Hole Size: Size & Weight: 12-1/4" 8-5/8" 24#

Cmt./Sx.

480 sx

25 sx plug from 1210-1460'

25 sx plug from 2000-2250'

90-sx plug from 2950-3850'

CIBP w/cmt, 25 sx from 5694-5944'

Perfs: 6216'-6228'

Form:

**Production String:** 

Depth: Hole Size: 6275'

7-7/8"

Size & Weight:

5-1/2"15.5#

Cmt./Sx.

1300 sx

TD: 6275'

State of New Mexico Energy, aerals and Natural Resources Department	Form C-183 Revised 1-1-88
to Appropriate District Office OIL CONSERVATION DIVISION	/ELL API NO. 30-015-22462
P.O. Box 2088 P.O. Box 2088	Indicate Type of Lease
P.O. Drawer DD, Artsela, NM 98220	STATE X FEI
DISTRICT III  O. C. D.  1000 Ris Bests Res. Artic, NM 87410	B-11593
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)	Losse Name or Unit Agreement Name  Empire Abo Unit "E"
1. Type of Well: OIL GAS WELL X WELL other	
	. Well No.
ARCO OIL and GAS COMPANY	373
3. Admis of Operator P.O. Box 1610, Midland, Texas 79702	Pool Name or Wildcat Empire Abo
4. Well Locastion	
Unit Letter D: 150 Feet From The North Line and 15 Fo	et from The West
Section 35 Township 17S Range 38E 28 NMPM	iddy County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3670.4 GR	
Check Appropriate Box To Indicate Nature of Notice, Report, o	Other Data
NOTICE OF INTENTION TO: SUBSE	QUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT [
PULL OR ALTER CASING L	
(Other) (Other)	[
12. Pescribe Praposed or completed Operation Clearly state all persinent dates, factualing estimated date of starting on work) and hull 1103.  7-8-92. RUPU. POH w/CA. Plug & Abandon as follows:	propiesed
Plug Interval Cmt Remarks	
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx 3 2000-2250 25 sx	Past ID-2 9-4-92 P+A
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx	Past ID-2 9-4-92 P+A
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx 3 2000-2250 25 sx 4 1210-1460 25 sx	Post ID-2 9-4-92 P+A
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx 3 2000-2250 25 sx 4 1210-1460 25 sx 5 0-850 100 sx	Past ID-2 9-4-92 P+A
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx 3 2000-2250 25 sx 4 1210-1460 25 sx 5 0-850 100 sx  CO csg & installed Dry hole marker. P&A'd 7-8-92.	
1 5694-5944 25 sx CIBP w/cmt. Displace hole w/10# MLF. 2 2950-3850 90 sx 3 2000-2250 25 sx 4 1210-1460 25 sx 5 0-850 100 sx  CO csg & installed Dry hole marker. P&A'd 7-8-92.	

STANKER STORMAN

ELL NAME: Empire Abo Unit "F"

**WELL NO: 372** 

OCATION: 2490' FNL 1100' FWL Unit: E Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-22137

**DATE P&A: 12/8/89** 

**POOL: Empire Abo Unit** 

20 sx plug from 0-100'

TO SR @ 840 40 sx cmt plug-550-914'

**Surface Casing:** 

Depth: **Hole Size:** 

750 12-1/4"

Size & Weight:

8-5/8" 24#

Cmt./Sx.

300 sx

TO Queen @ 1345' 25 sx cmt plug-1150-1400'

TO SA @ 2080' 50 sx cmt plug-1700-2150'

DV tool @ 4207- 25 sx cmt plug

CIBP w/25 sx cmt on top from 5900-6150'

Perfs: 6239'-6243'

Form:

Abo

**Production String:** 

Depth:

6370'

**Hole Size:** 

7-7/8"

Size & Weight:

5-1/2"15.5#

Cmt./Sx.

500 sx

TD: 6370'

P. U8 HUG-25-2000 FKI UI:UB PH OUD DISTRICT II FAX NO. 1505/489/20 State of New Mexico Form C-103 Submit 3 Copies Energy, Minerals and Natural Resources Department to Appropriate
District Office Revised 1-1-49 DISTRICT OIL CONSERVATION DIVISION WELL API NO. P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 RECEIVED 30-015-22137 DISTRICT II P.O. Drawer DD, Artenia, NM \$8210 Santa Fe, New Mexico 87504-2088 5. Indicate Type of Lease STATE FEE DISTRICT III 1000 Rio Brazos Rd., Azioc, NM 87410 5 '90 B-11593-8 C. C. D. SUNDRY NOTICES AND REPORTS ON WELLS ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR BUTKE BACKITÉ ! 7. Lesso Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) Empire Abo Unit "F" Type of Well: WET [ WELL X OTHER 2. Name of Operator & Well Na 372 ARCO OIL AND GAS COMPANY L 1. Address of Operator 9. Pool agge or Wildcat Empire Abo Unit P. O. Box 1610, Midland, Texas Well Location 2490 Feet From The North Line and 1100 For From The West Unit Letter . 35 175 28E Eddy Section NMPM Range 10. Elevation (Show whether DF, RKB, RT, GR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING **TEMPORARILY ABANDON CHANGE PLANS** COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. 12-6-89 RUPU. P&A'd as follows: Plug Interval Cmt Remarks 25 sx 5900-6150 CIBP w/25 sx on top 2 4000-4252 25 sx DV tool at 4207 3 1700-2150 50 sx TO SA @ 2080 4 25 sx 1150-1400 TO Queen @ 1345 550-914 40 sx TO SR @ 840 0 - 10020 sx

Installed dry hole marker. P&A'd 12-8-89.

Thereby carrify that the information above is the and complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a first the information above is the said complete to the best of my knowledge should be a said complete to the best of my knowledge.	mas Engr. Tech.	DATE4/2/90
TYPEORPENTHAME Ken W. Gosnell	915/688-5672	THE PETRONG NO.
(This space for Street Une)	Test Seel	

CONDITIONS OF APPROVAL, IF ANY:

VELL NAME: Artesia Unit

WELL NO: 20

LOCATION: 2310' FSL 330' FEL Unit: I Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-02126

DATE P&A: 6/22/00

POOL: Artesia

20 sx cmt plug @ 30'-surface

45 sx @ 748', tagged @ 547'

Surface Casing:

Depth:

606'

Hole Size:

8-1/4"

Size & Weight:

Cmt./Sx.

75 sx

25 sx @ 1150' tagged @ 690', cut csg @ 690'

Perfs: 2502'-2508'

Form:

N/A

CiBP @ 2150' w/40 sx cmt on top

**Production String:** 

Depth:

2525'

Hole Size:

7-7/8"

Size & Weight:

4-1/2"

Cmt./Sx.

200 sx

TD: 2525'

Submit 3 Copies to Appropriate District Office

#### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I		OII COI	NSERVAT	ION DIVIS	NOIS		1	
P.O. Box 1980, Hobbs, NM 88	240		2040 Pacheco S		01011	WELL API NO.		
DISTRICT.II		\$	Santa Fe, NM	87505		30-015-02126	<del></del>	<del></del>
O. Drawer DD, Artesia, NM	88210					sindicate Type of Lea	STATE	
DISTRICT III						«State Oil & Gas Leas		FEE
1000 Rio Brazos Rd., Aztec, N	IM 87410							
SUN	DRY NOTIC	CES AND REI	PORTS ON W	ELLS	· · · · · · · · · · · · · · · · · · ·		1	
(DO NOT USE THIS FO			LL OR TO DEEPE LICATION FOR F		CK TO A	/Lease Name or Unit	Agreement Name	
DIFFER		101) FOR SUCH		· CKWII		Artesia Unit	1	
Type of Well:						1		
Mer	GAS U	···	OTHER WIW					
Name of Operator Melrose Operating Co.						₩ell No. 20	_	
3Address of Operator PO Box 5061, Midland	, TX 79704					Pool name or Wildca Artesia QN-GB-		
Well Location								
Unit Letter	: 2310	Feet From The	South	Line and _	330	Feet From The	East	Line
Section	35	Township	178	Range	28E	NMPM	Eddy	County
		₩Elevat	on (Show whether E	OF, RKB, RT, GR, G	etc.) 			<u> </u>
11	Check Ap	propriate Bo	x to Indicate	Nature of No	otice, Re	port, or Other D	)ata	
NOTIC	E OF INT	ENTION TO	<b>ɔ</b> :	]	SUB	SEQUENT RE	PORT OF:	
PERFORM REMEDIAL WORK		PLUG AND	ABANDON	REMEDIAL			ALTERING CAS	ING
TEMPORARILY ABANDON		CHANGE PI	ANS	COMMENCE	DRILLING C	PNS.	PLUG AND ANBA	ANDONMENT 💢
L OR ALTER CASING				CASING TES	ST AND CEM	ENT JOB [	1	
OTHER:				OTHER:_				[
<sup>12</sup> Describe Proposed or Comp work) SEE RULE 1103.	leted Operations	(Clearly state all pe	ertinent details, and	give pertinent date	s, including e	stimated date of starting	any proposed	<del></del>
							!	* *
6/21/00 - Notify OCD, Move equi mud. Spot 40 sx @ 21	p to location. 50'. POH to 1	MI & RU. ND w 150' & spot 25	velihead. NUBOI sx. POH. Close	P. Unset pkr. P in well.	OH. RIH 8	set CIBP @ 2150	'AlH w/tbg. Load	d hole w/10#
6/22/00 - RIH & tag @ 690'. POI POH & spot 20 sx @ 3					& spot 45 s	x @ 748'. POH. W	OC. RIH & tag	@ 547'.
	<del></del>		•					
Install dry hole marker.								
		•						
							1	
							e e e e e e e e e e e e e e e e e e e	
I hereby certify that the inform	nation above is t	rue and complete to	the best of my know	wledge and belief.			<del></del>	

Donnie (thuater тітье Regulatory Tech. DATE 07-20-00 TYPE OR PRINT NAME Bonnie Atwater

TELEPHONE NO. 915/685-1761

This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

VELL NAME: Artesia Unit

WELL NO: 30

LOCATION: 990' FSL 2310' FEL Unit: O Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01743

**DATE P&A: 4/18/75** 

POOL: Artesia

30 sx cmt plug from 240-300', 7 cu yrds ready mix cmt bridge, filled hole w/ready mix to surface.

30 sx cmt from 386-500', Cut of 8 5/8' @ 285' & pulled

**Surface Casing:** 

Depth:

546'

Hole Size:

12-1/4"

Size & Weight:

8-5/8" 24#

Cmt./Sx.

100 sx

50 sx cmt plug from 1090-1500'

Cut 4 I/2" csg @ 1196' & pulled

. CIBP @ 2440' w/40' cmt on top

Perfs: 2470'-2512'

Form:

**Production String:** 

Depth:

2494

**Hole Size:** 

7-7/8"

Size & Weight:

4-1/2" 9.5#

Cmt\_/Sx\_

100 sx

TD: 2535

- PATCOPIES RECEIVED	_]				Form C-1		+
DISTRIBUTION					Supersed C-102 an		
SANTAFE	NEW MEXIC	O OIL CONSE	RXATIONCOM	MISSION D	Effective		
FILE			KETT	1 6 4 6		•	
⊋ .s.	]			•	Sa. Indicate	Type of Lease	· <del></del>
OFFICE	7		MAY 5	1975	State X	} r,	•
SPERATOR //	1		may o	157 0	5. State Cli	6 Gas Lease lic.	
	J			-			
201412	DV NOTICES AND DE	DODTE ON	<u> </u>	<del></del>	mm	mmm	m
(DO NOT USE THIS FORM FOR PR	RY NOTICES AND RE	CPCN OR PLUG BA	CR TO A DIFFERENT	nesenvoin.			11111
l.	TION FOR PERMIT (FORM (	C-101) FOR SUCH	PROPOSALS.)		7. Unit Agre	ement time	77777
WELL COMELL CO	other. Inject	ion			7. 0	- mem ( vante	
Notice of Operator	OTHER. INJECT	1011	<del></del>	· · · · · · · · · · · · · · · · · · ·	B. Farm or I.		
DEPCO, Inc.	•		•		1		
. Address of Operator	<del></del>	·			Artesi	a unit	
	- Marra 70761				9. Wall 110.		
800 Central, Odessa	a, Texas 79761		·	<del></del>	30		
4. Location of Well	0770				10. Field and	d Pool, or Wildren	
UNIT LETTER	2310	East	LINE AND	990	Art	esia	
					MILLI		7777
South	35 10H TOWNS	179	2	8E			/////
	, va (On as	· · · · · · · · · · · · · · · · · · ·	NANGE	нмгм.			
	15, Elevation	Show whether L	F, RT, GR, etc.)	<del></del>	12. County	Milli	444
		3662 Gr	•		Eddy	· [[[]]	/////
16. Charle	<del></del>			n			7777
	Appropriate Box To	indicate Na	iture of Notic		1		
NOTICE OF I	NTENTION TO:			SUBSEQUEN.	T REPORT	OF:	
_					1		
PERFORM REMEDIAL WORK	PLUG AND	ABANDON L	REMEDIAL WORK		`A	LTERING CASING	
TEMPORARILY ABANDON		1	COMMENCE DRILLI	NG OPNS.	PI	UG AND ABANDONME	:NT 🔼
PULL OR ALTER CASING	CHANGE PI	LANS	CASING TEST AND	CEMENT JOB		•	
		1	OTHER	·	,		$-\Box$
			•				
			·				
7. Describe Proposed or Completed O work) SEE RULE 1 (03.	perations (Clearly state al	l pertinent detai	ils, and give perti	nent dates, including	estimated date	of starting any p	roposed
<b>,</b>							
		•			•		
4-16-75 Set cast	iron bridge pl	ng at 244	וחו ש/4חו	cement blue	on ton	•	
Cut 4 1/2	2" casing at 11	96 and n	illed	echieric prug	ou cobs		
4-17-75 Set 50 sx	c. cement plug	1500_1000	30 eve	E00 70C /	ee'	D F /O#	
casing at	c 2051 and pull	7200-T020	70 OX OX	300-300. (	out off a	3 5/8"	
4-18-75 Put in 7	t 285 and pull	eu. Set	30 SX. Ce	ment prug 3	00-240.		
Palled be	cubic yards re	ady-mix c	ement in	well and mad	de bridge	₽.	
Fifted MC	ole with ready-	mix and s	set ary no.	le marker.	-	•	
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i. I hereby certify that the information	n above is true and complet	e to the best of	my knowledge an	d bellef.			
~ ~ ~ ~ ~ ~ ~ .				_			
(I) O hoson	D. R. Mason	TITLE	Chief_Cle	erk	DATE	4-30-75	
Form	<i>(* .</i> .				!		
proves at his form the Direct	W. T.	OIL A	ND GAS INSPE	CTOR	A	MAY 14 197	5
	1				- PAIL	184 J 7 JUL	
HOLTIONS OF APPROVAL, IF ANY	r: <del>)</del>				į		

**SDX Resources** Artesia Unit #16 1980 FNL & 660 FWL Section 36-17s-28e Eddy County, New Mexico Ground Elevation: 3674 Total Depth: 2654 feet API #30-015-01759 Date Drilled: 2/25/57

Status: P&A

Casing:

Hole Size:

Depth: Cement: 605'

75 sx

10 sx @ surface.

Cmt from 515' to 850'

Perfed @ 850' & circ . Cmt to surf.

25sx @ 1650'

CIBP @ 2136' w/ 35 sx on top

Perfs: 2236-2499 OH 2609-2654'

Casing: 4 1/2" Hole Size: 6 1/4" Depth: 2609' Cement: 200 sx

> 2654' TD:

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WELL DATA SHEET

01759

				∵ - ` <b>.</b>				
			LS LO GL	E NAME <u>Art</u> C. <u>E 36-17</u>	esia Unit s-28e, 19 DF	LSE.  80 fnl 660:	# <u>State (</u> Ewl 3682	-16 547
_				ELD Artesi		STATE	/S	
		<del></del>				GAS		
			_	ILL AND CO				
	· · ·		OR:	IG. OP. W	estern Ya 19-57	COMP. DAT	F 7-25-5	7
			TD	2654		PBTD		
			TO	PS: <u>0 1680</u>	. GB 2080	, SA 2500		
CASII	G HOLE	CASING		DEPTH SET	sks	TOC	:	
	19 3/4	†	17	605	75			
	6 1/4	4.1/2	9.5	2609	200		7	
COMPI	ETION			·			· ·	
TREA!	Open Hole	les 2492-99	10,000	141 20,000	#sand, 32	holes 2455	-63 26,00	0gal
BOPD	00#sand, 28 _65	<u>holes 2236</u> BWPD	6-43 11.5 MCFI	500gal 20, PD	BHP_			
PERFS	-							
		DUDD.			DUD			
					BnP			<u> </u>
	IAL WORK A							
DATE with	2-26-68 packer set	WORK <u>Set</u> at 2406.	t bridge Started	plug # 25	50- ran p ection.	lastic coat	ed tubing	
	TS							
DATE	2-8-71	WORK Back	flow to	est - vell	was not.	taking wate	r	
		TAKE						
RESUL	TS							
LIET Y	INVENTORY:	6 1 71		<del></del>	<del></del>		<del></del>	
*******	TUBING 2 3/	/8 71 jts 2	164.93	J55		<del></del>	1	
	RODS					<del></del>		
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	PACKER 4.5	Johnson 1	01 S 216	4.93′	SN	<del></del>	· ·	
	ANCHOR							
	PUMPING UNI	T				_ID#		
	MOTOR		-	II	)#			
						ks/Taylor		
	KS:							

WELL NO: 1 WELL NAME: Delhi Taylor State

LOCATION: 660' FSL 1980' FWL Unit: N Section: 35 TWNS: T-17-5 Range: R-28-E Eddy Co. NM

API NO. 30-015-07310

**DATE P&A: 11/26/59** 

POOL: Wildcat

10 sx to surface "

20 sx cmt plug from 800-850'

**Surface Casing:** 

Depth:

824'

Hole Size: Size & Weight: 12-1/4" 8-5/8" 24#

Cmt\_/Sx\_

250 sx

16.sx cmt plug from 1558-1600'

31 sx cmt plug from 2250-2350'

31 sx cmt plug from 6730-6830'

Perfs: Dry

Form:

**Production String:** Depth:

**Dry & Abandoned** 

Hole Size:

Size & Weight:

Cmt./Sx.

TD: 7002'

# NEW MEXICO OIL CONSERVATION COMMISSION

(Company)

I hereby certify that the information given

MISCELLANEOUS REPORTS ON WELLS DEC 7 1959	)
(Submit to appropriate District Office as per Commission Rule 1106)	
COMPANY Chambers & Kennedy, 607 Midland Mational Bank Building, Midland, Texas	:
(Address)	<del>_</del> .
LEASE pelhi-Taylor-State WELL NO. 1 UNIT H S 35 T 17-8 R 28-	<u> </u>
DATE WORK PERFORMED 11-26-59 POOL Wildest	
	=
This is a Report of: (Check appropriate block) Results of Test of Casing Shut	-off
Beginning Drilling Operations Remedial Work	
Plugging Other	
Detailed account of work done, nature and quantity of materials used and results obta	ine
Heat cement plugs were set at the following depths with stated emounts;	
1558" - 1600" - 16 sacks 2250" - 2350" - 31 sacks 6730" - 6830" - 31 sacks	
The intervals between easent plugs were filled with drilling mud. Surface casing, 824' of 8-5/8" 28# new, was comented with 250 sacks and left in the he Witnessed by: Albert Fierce, Manager of Betary Tools, Carper Drilling Company, Inc.	le.
Surface casing, 824' of 8-5/8" 28# new, was comented with 250 sacks and left in the he	ole.
Surface casing, 824' of 8-5/8" 28# new, was comented with 250 sacks and left in the he Witnessed by: Albert Pierce, Manager of Bothry Tools, Carper Drilling Company, Inc.	ole.
Surface casing, 824' of 8-5/8" 28# new, was camented with 250 sacks and left in the be Witnessed by: Albert Pierce, Manager of Retary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY	)1e.
Surface casing, 824' of 8-5/8" 28# naw, was camented with 250 sacks and left in the beweltesed by: Albert Pierce, Manager of Retary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY  Original Well Data:	
Surface casing, 824' of 8-5/8" 28# naw, was camented with 250 sacks and left in the heat with 250 sack	
Surface casing, 824' of 8-5/8" 28# naw, was camented with 250 sacks and left in the bewelter by: Albert Pierce, Manager of Betary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date Thug. Dia Thug Depth Oil String Dia Oil String Depth	• • • • • • • • • • • • • • • • • • •
Surface casing, 824' of 8-5/8" 28# naw, was camented with 250 sacks and left in the heat with 250 sack	) i.e.
Surface casing, 824' of 8-5/8" 284 naw, was comented with 250 sacks and left in the law Witnessed by: Albert Pierce, Manager of Betary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY  Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date  Thug. Dia Thug Depth Oil String Dia Cil String Depth  Perf Interval (s)  Open Hole Interval Producing Formation (s)	
Surface casing, 824' of 8-5/8" 28# new, was camented with 250 sacks and left in the beautiful and the second by: Albert Pierce, Manager of Retary Teels, Carper Brilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date Thug. Dia Thug Depth Oil String Dia Cil String Depth Perf Interval (s) Open Hole Interval Producing Formation (s)  RESULTS OF WORKOVER:  BEFORE AFTER	
Surface easing, 824' of 8-5/8" 286 new, was comented with 250 sacks and left in the left by:  Witnessed by: Albert Pierce, Manager of Retary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY  Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date  Thug. Dia Thug Depth Oil String Dia Cil String Depth  Perf Interval (s)  Open Hole Interval Producing Formation (s)  RESULTS OF WORKOVER:  Date of Test	
Surface casing, 824' of 8-5/8" 284 naw, was camented with 250 sacks and left in the law witnessed by: Albert Pierce, Manager of Retury Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date Thing. Dia Thing Depth Oil String Dia Oil String Depth Perf Interval (s) Open Hole Interval Producing Formation (s)  RESULTS OF WORKOVER: BEFORE AFTER  Date of Test Oil Production, bbls. per day Gas Production, Mcf per day	
Surface casing, 824' of 8-5/8" 28# new, was cemented with 250 sacks and left in the left witnessed by: Albert Pierce, Kanager of Retary Tools, Carper Drilling Company, Inc.  FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data:  DF Elev. TD PBD Prod. Int. Compl Date Thug, Dia Thug Depth Oil String Dia Cil String Depth Perf Interval (s) Open Hole Interval Producing Formation (s)  RESULTS OF WORKOVER: BEFORE AFTER Date of Test Oil Production, bbls. per day	

WELL NAME: State "A" WELL NO: 41

LOCATION: 2310' FSL 2310' FEL Unit: J Section: 35 TWNS: T-17-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01741

POOL: Empire Abo Undes.

DATE P&A: 9/26/61

25 sx plug from surface to marker **Surface Casing:** 769 Depth: **Hole Size:** 11" Size & Weight: 8-5/8" 23# Cmt./Sx. 350 sx

25 sx plug from 500 - 425'

25 sx plug from 3000-2925'

50 sx plug from 6470-6320'

**Production String:** 

Depth: **Hole Size:** 

Size & Weight: Cmt./Sx.

TD: 6470'

Date: 8/22/00 aer

Perfs: Dry

Form:

# NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-(Rev 3-55 REGEIVED

# MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106) SEP 29 1984

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Welch Mry-State #4 990 FNL & 2310 FWL Section 35-17s-28e **Eddy County, New Mexico Ground Elevation:** Total Depth: 2,375 feet API #30-015-01757

Date Drilled: 1/7/57 Date Plugged: 5/14/61

Casing:

8 5/8"

Hole Size: Depth:

505

Cement:

Plug #3 Surface 10 sx

Plug #2

655'

15 sx

2375 TD:

Plug #1

2375'

25 sx

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After Vorkover										
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ate		DEC 1	9 1961		Сомр	acy	C. H	ELCH		

Depco Artesia Unit #12 1650 FNL & 660 FWL Section 35-17s-28e **Eddy County, New Mexico Ground Elevation:** Total Depth: 2,304 feet API #30-015-01730

Date Drilled: 8/17/61 Date Plugged: 8/17/61

Casing:

Cement:

8"

Hole Size: Depth:

475

50 sx

Plug #3

Surface

5 sx

Plug #2

1500'

10 sx

TD:

2304

Plug #1

2304

25 sx

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Welch State #1

2310 FNL & 250 FWL

Section 35-17s-28e

Eddy County, New Mexico

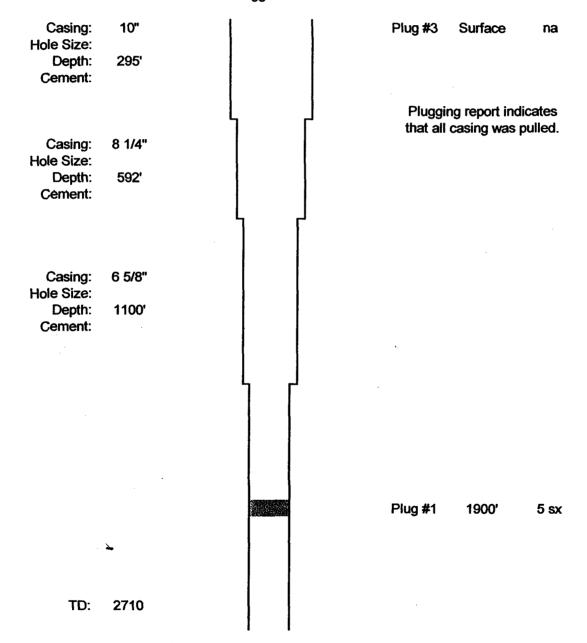
**Ground Elevation:** 

Total Depth: 2,710 feet

API #30-015-01729

Date Drilled: 9/9/26

Date Plugged: 8/14/34



Form C-102

# N. 1 XICO OIL CONSERVATION CC 1 ION Santa Fe, New Mexico

### MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

NOTICE OF INTENTION TO DEEPEN WELL  OIL CONSERVATION COMMISSION, Santa Fa. New Mexico Gentiemen: Following is a notice of intention to do certain work as described below at the Following is a notice of intention to do certain work as described below at the  Following is a notice of intention to do certain work as described below at the  Following is a notice of intention to do certain work as described below at the  Following is a notice of intention to do certain work as described below at the  Following is a notice of intention to do certain work as described below at the  Well No	Indicate nature of no	tice by checking below:
NOTICE OF INTENTION TO CHARGE PLANS  NOTICE OF INTENTION TO REPAIR WELL  NOTICE OF INTENTION TO DEEPEN WELL  NOTICE OF INTENTION TO PLUG WELL  OIL CONSERVATION COMMISSION, Santa Fe. New Mexico  Gentlemen: Following is a notice of intention to do certain work as described below at the  CRAPKS of CRAB  Lake  Well No.  FULL DETAILS OF PROPOSED PLAN OF WORK  FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION  See plan to commence work on August 15, 1934. The reason for whishing to be plan to commence work on August 15, 1934. The reason for whishing to plan to commence work on August 15, as follows:  295' of 84" casing; 1100' of 668" casing.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows: 11 hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to 1100'. Full 658" casing. Fill with mud to octom of 64' casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 10" casing. Pull 65' casing. Fill with mud to bottom of 65' casing. Fill with mud to bottom of 65' casing. Fill with mud to bottom of 65' casing. Fill with mud to		
NOTICE OF INTENTION TO DEEPEN WELL  NOTICE OF INTENTION TO PLUG WELL  OIL CONSERVATION COMMISSION, Santa Fe. New Mexico  Gentlemen: Following is a notice of intention to do certain work as described below at the  Company or Operation  FULL DETAILS OF PROPOSED PLAN OF WORK  FOLLOW INSTRUCTIONS IN THE RULES AND RECULATIONS OF THE COMMISSION  The present condition of the well is as follows: 295' of 10" casing.  The present condition of the well is as follows: 295' of 10" casing.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as follows:  The proposed abandon the well is as foll	NOTICE OF INTENTION TO CHANGE PLANS	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
OIL CONSERVATION COMMISSION, Santa Fe, New Mexico  Gentlemen: Following is a notice of intention to do certain work as described below at the  Company or County  FULL DETAILS OF PROPOSED PLAN OF WORK  FOLLOW INSTRUCTIONS IN THE RULES AND RECULATIONS OF THE COMMISSION  See plan to commence work on August 15, 1934. The reason for whishing the abandon the well is non-productive.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of the well is as follows:  The proposed of t	NOTICE OF INTENTION TO REPAIR WELL	Notice of intention to abandon wel
Centiemen: Following is a notice of intention to do certain work as described below at the    Well No.	NOTICE OF INTENTION TO DEEPEN WELL	NOTICE OF INTENTION TO PLUG WELL
of Sec. 25 T. 17 R. 28 N. M. P. M. Artesia Fie  County Full Details Of Proposed Plan Of Work  Follow instructions in the rules and regulations of the commission  See plan to commence work on August 15, 1934. The reason for whishing shandon the well is non-productive.  The present condition of the well is as follows: 295' of 10" casing.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows: Fill hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to 11:00'. Pull 6 5/8" casing. Fill with mud to cottom of 84' casing. Pull 84" casing. Fill with mud to bottom of 10" casing. Pull 0" casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Welch Brothers  Except as follows:  By V. P. Welch  Position Fartner  Send communications regarding well to  OIL CONSERVATION COMMISSION.  Name Welch Brothers	Santa Fe, New Mexico Gentlemen:	30-015-0172
County.  FULL DETAILS OF PROPOSED PLAN OF WORK  FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION  See plan to commence work on August 15, 1934. The reason for whishing is abandon the well is non-productive.  The propent condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows: 711 hole with mud to 1900I. Coment with five sacks of cement. Fill with mud to 1100'. Pull 6 5/8" casing. Fill with mud to octom of 62' lasing. Pull 82" casing. Fill with mud to bottom of 10" casing. Pull 10" casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Welch Brothers  Except as follows:  By V. P. Welch  Position Fartner  Send communications regarding well to  Name Welch Brothers  OIL CONSERVATION COMMISSION.	Committee Coeralds Lease	Well NoinN
FULL DETAILS OF PROPOSED PLAN OF WORK  FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION  The plan to commence work on August 15, 1934. The reason for whishing the abendon the well is non-productive.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows: 111 hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to 1100'. Pull 6 5/8" casing. Fill with mud to bottom of 84 hasing. Pull 84" casing. Fill with mud to bottom of 10" casing. Pull 84" casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Welch Brothers  Except as follows:  By V. P. Welch  Position Fartner  Send communications regarding well to  OIL CONSERVATION COMMISSION.  Name Welch Brothers		N. M. P. M., Artesia Field,
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION  See plan to commence work on August 15, 1934. The reason for whishing shanden the well is non-productive.  The present condition of the well is as follows: 295° of 10° casing.  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  Fill hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to bottom of 84° casing. Fill with mud to bottom of 10° casing. Pull 82° casing. Fill with mud to bottom of 10° casing. Pull 10° casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Walch Brothers  Except as follows:  By V. P. Welch  Position Servation Commission.  Name Welch Brothers	County.	
The present condition of the well is as follows: 295' of 10" casing.  The present condition of the well is as follows: 295' of 10" casing.  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  The work which we propose to do in abandoning the well is as follows:  Fill hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to bottom of 64' casing. Fill with mud to bottom of 10" casing. Pull 84" casing. Fill with mud to bottom of 10" casing. Pull 0" casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Walch Brothers  Execute as follows:  By V. P. Welch  Position Sent communications regarding well to  OIL CONSERVATION COMMISSION.  Name Welch Brothers	FULL DETAILS OF PRO	POSED PLAN OF WORK
The present condition of the well is as follows: 295' of 10" casing. The present condition of the well is as follows: 295' of 84" casing; 1100' of 6 5/8" casing.  The work which we propose to do in abandoning the well is as follows: 111 hole with mud to 1900I. Cement with five sacks of cement. Fill with mud to 11.00'. Pull 6 5/8" casing. Fill with mud to cottom of 84' casing. Pull 84" casing. Fill with mud to bottom of 10" casing. Pull 0." casing and fill with mud to surface and erect regulation marker.  Approved August 14, 19 34 Walch Brothers  Except as follows:  By V. P. Welch  Position Fartner  Send communications regarding well to  OIL CONSERVATION COMMISSION.  Name Welch Brothers  By J. D. Huntar	•	
except as follows:  By V. P. Welch  Position	92' of 8t" casing; 1100' of 6 5/8" of the work which we propose to do in at 1111 hole with mud to 19001. Cement 1th mud to 1100'. Pull 6 5/8" casing Pull 8t" casing. Fill with	pasing.  pandoning the well is as follows:  with five sacks of cement. Fill  ag. Fill with mud to pottom of 82"  mud to bottom of 10" casing. Pull
Send communications regarding well to OIL CONSERVATION COMMISSION,  Name <u>Velob Brothers</u> By J. D. Hunter		Company or Operator
Send communications regarding well to OIL CONSERVATION COMMISSION,  Name <u>Veloh Brothers</u> By J. D. Hunter		Sontnam
Name <u>Weloh Brothers</u>		
By J. D. Hunter	OIL CONSERVATION COMMISSION,	Name <u>Weloh Brothers</u>
ANTENDE DESCRIPTO SCARLEA	By J. D. Hunter	_
Title Oll & Gas Inspector	Title Oll & Gas Inspector	Address <u>Artenia, New Mexico</u>

Form 80104



# NOTICE OF INTENTION TO ABANDON WELL

Notice must be given at least five days before work is to begin to the State Geologist or to the proper Oil and Gas Inspector. It is desirable that a representative of the Department of the State Geologist witness the plugging of wells being abandoned whenever possible. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in duplicate.

		rtesia		. 10. 10 <b>34</b>
Mr. B. H. Wells	***************************************			*
Santa Fe, New Mexico Dear Sir:				•
You are hereby notified tha	t it is our intention	n to abandon		Vell
No. 1 in Wh of 1				
N. M. P. M., Artei	eia c	oil Field	Rååv	County
We plan to commence work on .		August 15th.	10 24	
The reasons for wishing to			, , , , , , , , , , , , , , , , , , ,	
Mon-productive.			30-015	-017
		· · · · · · · · · · · · · · · · · · ·	\	1 goges
The present condition of the			1	1 6.3
	592 feet of	f 10" Casing. f 8-1/4" <b>casi</b> : f 6-5/8" Casi:	ng. V8	
שמ	PLICAT	Ë	: -	
The work which we propo-	se to do in ahand	oning the well is a	s follows:	:
Fill hole with mud Fill with mud to 1: to bottom of 8-1/4: bottom of 10" casi: and erect regulation	" casing. Pu	11 0-5/8" OFF	ing. Fill w	th mud
		Sincerely yours,		
Approved AUG 1 4 1934	19	WEL	CH BROTHERS	
Except as follows:		By U. Q. 1		any of Operator.
		,	Partner	
			ons regarding this	well to
1.01		Name Welch B	ma 4 hama	
State Godington Of	I and Gas Inspector.	Address		

Hughes
State A #43
330 FNL & 1650 FWL
Section 36-17s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 6,496 feet
API #30-015-02153
Date Drilled: 10/22/61
Date Plugged:

Casing:

8 5/8"

Hole Size: Depth:

760

Cement:

450

25 sx @ surface

25 sx 600 to 425'

25 sx 3000' to 2925'

50 sx @ 6000 to 5850'

50 sx @ 6250-6100'

TD: 6496'

APR 1 9 1962



#21 20-015-02153

					100 P		
Footoge	NEW MEXICO		ONSERVA S REPO			ON	FORM C-103 (R <sub>a</sub> 3-55)
1650 T) (Sub	mit to appropria	to Distric	office as	per Com	mission R	ile 1106)	D. C. C
Name of Company			Addre		AND NO		
Hondo-Western-Tate		ll No.	Unit Letter			ia. Now May	
State 141	). 	43	Onit Letter	Section	Township		Range 2A-E
Date Work Performed. Po	ol .				County	Arta Car	
10-22-61	Repire Ab		NE. (61)			ddy	GEIVED
Beginning Drilling Operations			OF: (Check Cement Joi			explain):	CEIVE
Plugging	<del></del>	dial Work				1	10V 1 7 1961
Detailed account of work done, nature	e and quantity of s	naterials u	sed, and rea	sulte obta	ined.		D. C. C.
An per our	0-102 the f	ollowin	a ia our	ploce	Log deta	4le	Michael
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		ORIGIN	AL WELL D	ATA			
D F Elev. T D		PBTD	•		Producing	Interval	Completion Date
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Open Hole Interval	e December 3	<u> 1962</u> L 1962	Produci	ag Forms	rion(s)		
	<del></del>	RESULTS	OF WORK	OVER			
Test Date of Test	Oil Production BPD		oduction FPD		roduction PD	GOR Cubic feet/Bb	Gas Vell Potential MCFPD
Before Varkover			÷.				
A4		. '	:				
After Vockover	•	<u> </u>		<u> </u>			
Vorkover			I here	by certify best of n	that the in	formation given	above is stree and complete
	N COMMISSION		I here to the	by certify best of a	that the in	formation given :	above is true and complete
Vorkover			I here to the	oest or n	that the in my knowledge	<i>e</i> .	above is true and complete

Donnelly Drilling Sinclair State B #3 660 FSL & 1980 FEL Section 36-17s-28e Eddy County, New Mexico Ground Elevation: Total Depth: 2,857 feet API #30-015-01765 Date Drilled: 10/18/56

Date Plugged: 10/56

Casing:

8 5/8"

Hole Size:

Depth: 560'

Cement: 25 sx

20 sx @ 293-349'

8 5/8" Csg pulled @ 319'

10 sx 580 to 610'

15 sx @ 743-783'

TD: 2857

FAX NO. 15057489720

Medit to Disselet College than twenty days

Oli Cons. Comm. ARTESIA OFFICE

WELL RECORD 30-015

Mell to Disselet Office, Oil Communication Communication to which Form C-101 was sent not lastr than twenty days after completion of well. Follow instructions in Rules and Regulations of the Comminion. Submit in QUINTUPLICATE.

If State Land submit 6 Capies

	DONNELLA	(Campus) w (			•	· · · ·		4.1.	(Lease)	• • • •		•
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- BECORD OF PRODUCTION AND STREET ATION

(Record the Process used, No. of Qu. or Gals. used, interval treated or shot.)

AUG 6

Date

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rubillusias, Comme LEASE Sincleir State B WELL NO. 3 UNIT 0 S 36 DATE WORK PERFORMED Votober 17 1054 POOL This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off Beginning Drilling Operations Remedial Work X Plugging Other Detailed account of work done, nature and quantity of materials used and results obtained. 8 5/8° OD cosing knocked off at 319'. 15 sacks cement set at 743-783'- base solt 765; 10 stoke cement set at 580-610'; top of selt 595'. 20 sacks cement set at 293' to 3-9', top of size left in nois 319'. Cemented dry hole marker at top of hole, cleaned up location. Fit mud was placed between all plugs. FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY Original Well Data: DF Elev. Prod. Int. Compl Date Oil String Depth Thng Depth Oil String Dia Perf Interval (s) Open Hole Interval Producing Formation (s) RESULTS OF WORKOVER: BEFORE Date of Test Oil Production, bbls. per day Gas Production, Mcf per day Water Production, bbls. per day Gas-Oil Ratio, cu. ft. per bbl. Gas Well Potential, Mcf per day Witnessed by\_\_\_ (Company) I hereby certify that the information given OIL CONSERVATION COMMISSION above is true and complete to the best of my knowledge, Name Name Position WIL AND BAS INSPECT

CompanyDonnelly Drilling

Johnston
Five #4

1650 FNL & 660 FEL
Section 36-17s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 2,749 feet
API #30-015-10544
Date Drilled: 6/16/65

Casing: 8 5/8"

Hole Size:

Depth: 439' Cement: 50 sx Date Plugged: 6/29/65 Plug #5 Plug #4 Plug #3

Plug #5 Surface na

Plug #4 400-460 20 sx

Plug #3 790-730 20 sx

Plug #2 1605-1680 25 sx

Plug #1 2678-2753 25 sx

· .	·				
DISTRIBUTION	NEW MEXICO OIL C	ONSERVATION COMMISSION		Form C-103 Supersedes C-102 and C Effective 1-1	-103
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OIL A SAB C	OTHER-	•		7. Ditt. Advastiso	
Name of Operator				8. Farm or Leas	e Name
Hugh L. Johnston, Sr	. /				Five J
, Address of Operator				9. Well No.	
E31 Petroleum Bldg.,	KOSMOTT NON WEST OF			10. Field and Po	ool, or Wildcat
UNIT LETTER H 16	50 SEEV FROM THE NORT	h 660	. FEET FROM	Anna	a Glenie
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				Eddy	
Check App	propriate Box To Indicate	e Nature of Notice, Repo	ort or Oth	er Data	
NOTICE OF INTE		<del>_</del>		REPORT OF	
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ERFORM REMEDIAL WORK	FLUE AND ABANDON {	REMEDIAL WORK COMMENCE DRILLING OPHS.	H		ILNE CASINE
ULL OR ALTER CASING	CHANGE PLANS	CABING TEST AND CEMENT JO	.  -	700	THE CONTROL LAND
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				O. C. C	
				ARTEBIA, OFF	ICK
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I hereby cartify that the information abou	e is true and complete to the be	at of my knowledge and belief.	,		
-1 /1/A		-			
HEO THE AND AND	Tustano, 1111 _	Owner		PATE June	29, 1965
			<u> </u>	1	UN 2 9 1965
Dove or W.a. Dress	sett TITLE_	ak bin isab idapeut	45	DATE	UN 2 / 1500

CONDITIONS OF APPROVAL, IF ANY!

WELL NAME: Artesia Unit WELL NO: 57

LOCATION: 1570' FSL 1070' FWL Unit: L Section: 3 TWNS: T-18-S Range: R-28-E Eddy Co. NM

API NO. 30-015-01795

**DATE P&A: 5/8/87** 

POOL: Artesia

10 sx cmt plug to surface

**Surface Casing:** 

Depth:

Hole Size:

682' 9-5/8"

Size & Weight:

8-1/4"

Cmt\_/Sx.

N/A

No scale on wellbore

55 sx cmt plug from 293'-1111'(tagged @ 293')

100 sx cmt @1387, tagged plug @ 1111'

135 sx cmt @1665', tagged @ 1387'

65 sx cmt @ 1888', tagged @ 1665'

70 sx cmt plug @ 2243', tagged @ 1888'

Perís: 2320'-2432'

Form:

**Production String:** Depth: N/Ā

Hole Size:

Size & Weight:

Cmt./Sx.

TD: 2438'

(NE	RSY AND MINERALS D	EPAR	3N:T	N
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# OIL CONSERVATION DIVISIO .

Form C-103

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DEPCO.	Inc.			<b>44</b> (1)		Artesia	TIm d a
. Address of Ope				О. С. D.		9. Well No.	
800 Cen	tral, Odessa, Tex	as 79761		ARTESIA, OFFIC	5	57	
4. Location of We						10. Field and Pa	
UNIT LETTER	L15	70 PEET FROM THE	South	LINE AND	70 reet race	Artesia (	CBR, SA)
THE WE	est LINE, SECTION	3 70WHS	18	RANGE 2	8		
~~~~~							
				DF, RT, GR, etc.)		12. County	
		3600				Eddy	
. 16.	Check Appro	opriate Box To	Indicate N	lature of Notice,	Report or Ot	her Data	
	NOTICE OF INTEN	TION TO:			SUBSEQUEN	T REPORT OF:	
					<b>—</b>		
PERFORM REMEDIA	=	PLUG AND	ABANDON []	REMEDIAL WORK		ALTER	ING CASING
TEMPORARILY ABA	7-4	CHANGE PL	m	COMMENCE DRILLING	7=	PLUG A	ND ABANDONMENT
POLL ON ALIEN LA	31,50	Change Fi	·~~·	CASING TEST AND CEN	4ENT 708 [		
HER							
17. Describe Prop work) SEE RU	osed or Completed Operation	ns (Clearly state all	pertinent deta	ils, and give pertinen	t dates, including	estimated date of s	tarting any propo
						•	
5-6-87:	Ran tbg to 2243'	. Spotted 7	0 sx Clas	ss "C" cmt w/2	% CaCl, 6#	gel, 1/4# F	locele.
	SI 2 hrs & tag p	Tug @ 1888.	Pmpd 6:	sx Class "C"	cmt w/2% (	CaCl @ 1888'	•
5-7-87:	Tagged plug @ 16	651 Pmpd 1	35 ev Cls	es tiell emt w	'29 CaCl A	16651 CT 5	<b></b> .
2	tag plug @ 1387'	• Pmpd 5 bb	ls Flo-C	nek followed w	7/100 sx C1:	ass "C" cmt i	1115 G 1147
	CaC1.				., 200 OH OH		N / -176
				•			
5-8-87:	Tagged plug @ 1,	111'. Set 5	5 sx plug	g from 1,111'	to 293'.	SI 2 hrs & ta	ag plug
	@ 293'. Set 10	sx plug @ sf	s w/dry l	nole marker.	Mud laden :	fluid betweer	a sfs
	plug & 293' & fr	om 2293' to	TD.				
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8. I hereby certify	that the information above i	is true and complete	to the best of	my knowledge and be	lief.		
216	<b>1</b>						
1/4/	Jenne R. L.	• Denney	TITLE _ Ch	ief Productio	n Clerk	DATE 6	5-2-87
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ONDITIONS OF A	PPROVAL, IF ANY		•	V		/	•

# **WELLBORE DIAGRAM**

WELL NAME: Artesia Unit

WELL NO: 61

LOCATION: 660' FSL 2310' FEL Unit: O Section: 3 TWNS: T-18-S Range: R-28-E Eddy Co. NM

API NO. 30-015-02550

DATE P&A: 6/26/00

POOL: Artesia

10 sx cmt @ 30'-surface

**Surface Casing:** 

Depth:

N/A

**Hole Size:** 

Size & Weight:

Cmt./Sx.

Perfed @ 595', squeezed w/100 sx cmt

Tagged cmt @ 1380'

Perf @ 1682', squeezed w/50 sx to 1400'.

CtBP @ 2300! w/25 sx on top

Perfs: 2434'-2452'

Form:

N/A

**Production String:** 

Depth:

2517'

Hole Size:

7-7/8"

Size & Weight:

5"

Cmt./Sx.

100 sx

TD: 2517

Date: 8/22/00 aer

# State of New Mexico Energy, Minerals and Natural Resources Department

The state of the state of the

# OIL CONSERVATION DIVISION

Form C-103	
Revised 1-1-89	3

P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVA		WELL API NO.	
	2040 Pachec		30-015-02550	
DISTRICT II	Santa Fe, N	M 8/505	sindicate Type of Le	
P.O. Drawer DD, Artesia, NM 88210			andicate Type of Le	
DISTRICT III				STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410			State Oil & Gas Lea	ise No.
	TICES AND REPORTS ON			
(DO NOT USE THIS FORM FOR PR			Lease Name or Uni	t Agreement Name
	RVOIR. USE "APPLICATION FOI C-101) FOR SUCH PROPOSALS.		Artesia Unit	
Type of Well:		<u></u>		
OIL GAS WELL [	OTHER WIV	v	1	
Name of Operator Melrose Operating Co.			•Well No.	
3Address of Operator			»Pool name or Wildo	at
PO Box 5061, Midland, TX 7970	4		Artesia QN-GB	-SA
•Well Location	• "	2242		
Unit Letter O: 660	Feet From The South	Line and 2310	Feet From The	East Line
Section 3	Township 18S	Range 28E	NMPM	Eddy County
	toElevation (Show whether	er DF, RKB, RT, GR, etc.)		
11 Check A	ppropriate Box to Indicat	e Nature of Notice, R	eport, or Other I	Data Data
NOTICE OF IN	ITENTION TO:	SUE	SEQUENT RE	EPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS.	PLUG AND ANBANDONMENT
LL OR ALTER CASING		CASING TEST AND CE	MENT JOB	
OTHER:		OTHER:		
12Describe Proposed or Completed Operatio work) SEE RULE 1103.	ns (Clearly state all pertinent details, ar	nd give pertinent dates, including	estimated date of starting	any proposed
•				
6/23/00 -	•			
Notify OCD. Move equip to loc. MI mud. Spot 25 sx @ 2300'. POH &				
,	pen @ 1002; Kii i Wpki a sq	. DO DA GIOPIACO TO 1400. F	ю. гот тры. о	1000 17011 111.
6/26/00 - RIH & tag @ 1380'. POH. RIH & p		Sqz 100 sx. SI @ 250#. W	OC for 4 hrs per OC	CD. POH & spot 10 sx @ 30'
to surf. RD. Cut off wellhead. Leve	i pit & cellar.			·
Install dry hole marker.				
· ·				
I hereby certify that the information above is	strue and complete to the best of my k	nowledge and belief.		
SIGNATURE Bonnie	theater	TITLE Regulatory Tech.		DATE 07-20-00
TYPE OR PRINT NAME BONNIE Atwater				TELEPHONE NO. 915/685-1761
(This space for State Use)				
	•			
APPROVED BY .		TITLE		DATE

Melrose Artesia Unit #66 1550 FNL & 1950 FWL Section 3-18s-28e **Eddy County, New Mexico** 

**Ground Elevation:** Total Depth: 2,435 feet

API #30-015-20322 Date Drilled: 8/31/70

Status: WIW

10 sx @ surface

30 sx @ 360 to 560'

Casing:

8 5/8"

Hole Size:

561'

Depth: Cement:

300 sx

Casing:

5 1/2"

Hole Size:

Depth:

2435

Cement:

600 sx

CIBP @ 2300 w/ 40' Cmt on top

TD: 2435

D. R. Mason VIVLE Chief Clerk SAVE 4-30-75

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STIDNE OF APPROVAL, IF ANY

AUG 2 8 1970  Sa. Indicate Type of Lease  Both Office  Derator  Derator  Derator  SUNDRY NOTICES AND REPORTS ON WELLS  Goo not use trimple for the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce of the produce o	医牙髓缺陷 网络					M	0.717
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BEPCO. Inc.  Address of Operator  800 Central. Odessa. Texas 79760  Location of Well  UNIT LEVTER F			DTW	usn- injection	on .		4 22
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8-15-70 Brill 7 3/4" hole to 2360". Core #1 from 2360-2410". 8-16-70 Brill 7 3/4" hole to 2435" (TD). 8-17-70 Ran Gamma Ray-Caliper-Density Log and cut 5 tricores at 1833-36", 2116-19", 2235-38", 2295-98", and 2345-48". 8-18-70 Ran 2435" of 5 1/2" 15.5#/ft. J-55 casing and comented with 400 sacks Howco Lite water followed with 200 sx. incor with 3# sait per sack. Coment circulated. During WOC time down hole flow pushed approximately 50 sx. coment out the hole at the surface. 8-24-70 Perf 2 holes at 2344". Set retainer at 2225" and pump into perfs at 1 1/4 BPH at 1200 psig. Coment with 10 sx. incor coment with 3% sait and 3% CaCi. WOC. 8-26-70 Perf 2 holes at 2220" and could not pump into perfs at 2000 psig. Perf 2 holes at 1805" and could not pump into at 2000 psig.			<u> </u>				
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APPROVED BY W. A. Suessest TITLE BIL AND GAS INSPECTOR

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800 Centrel. Odesse, Texas 79760  4. Location of Vali  UNIT CETTER   1550   PET FROM THE   MOTTH   LINE AND   1950   PET FROM THES!    THE   West   LINE, RECYTON   3   TOWNSHIP   185   RANGE   28E   INDITION    15. Elevation (Show whether DF, RT, CR, stc.)   12. County   1662 Gr.    Check Appropriate Box To Indicate Nature of Notice, Report or Other Data   NOTICE OF INTENTION TO:   SUBSEQUENT REPORT OF:    PERFORM RESERVAND   PLUE AND ARABOON   COMMERCE OF INLINE OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF ILLING OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF NA.   ALTCHISC CARDINE PROPOSED OF COMMERCE OF NATIONAL PROPOSED OF COMMERCE OF NATIONAL PROPOSED OF COMMERCE OF NATIONAL PROPOSED OF COMMERCE OF NATIONAL PROPO		: .	***	
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Spudded 7:00 P.M. 8-11-70. Brilled 11" hole to 561". Set 8 5/8" 24# 8rd. casing at 561". Comented with 300 sx. class "M" with 3# sait per sack 6 3% CaCl. Plug down 8:10 A.M. 8-12-70. Coment circulated. WOC 18 hours, tosted casing at 1000# for 30 minutes. No. Leaks.  18. I hereby coulty that the information shows in true and complete to the best of my knowledge and belief.	TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	- 13.
Spudded 7:00 P.M. 8-11-70. Brilled 11" hole to 561". Set 8 5/8" 24# 8rd. casing at 561". Cemented with 300 sx. class "H" with 3# selt per sack 8 3% CaCl. Plug down 8:10 A.M. 8-12-70. Cement circulated. WOC 18 hours, tested casing at 1000# for 30 minutes. No. Leaks.	17. Describe Proposed or Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed of Completed Operation of the Proposed Operation	itions (Clearly esase all persinent det	sils, and give persinent dates, inclu	ding essimated date of starting any propos
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	18. I hereby couldy the talormation abo	eve is true and complete to the bent o	f my knowledge and bellef.	
		R. Mason Ci	nief Clerk	PATE 8-18-70

Flynn Welch
State 647 # 42
2390 FSL & 1070 FWL
Section 3-18s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 2,432 feet

API #30-015-01794 Date Drilled: 5/13/26 Date Plugged: 7/25/52

Casing:

Hole Size:

Depth:

Cement:

Plug #3 Surface

10 sx

Plugging Report claims that the hole contained no surface casing.

Casing: 8 1/4"

Hole Size:

Depth: 723'

Cement:

Pulled all of 8 5/8" Casing Casing size on plugging report conflicts with originally reported size.

Plug #2

700'

10 sx

Plug #1

2300'

10 sx

TD: 2432

# NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

# MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after	the work specified is com-
pleted. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off,	result of plugging of well,
result of well repair, and other important operations, even though the work was witnessed by an agent of the C	Commission. See additional
instructions in the Rules and Regulations of the Commission.	_

		the Commission.		س. بر سے رو <i>ت</i>	20.1
.,		Indicate Nature of Re	port by Checking E	lelow 30-115-011	74
REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RES		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	x	REPORT ON RECOPERATION	OMPLETION	REPORT ON (Other)	
		July	26, 1952	Artesia, N.M.	
Following is a report on the	work done				
Malco-Resler-	YATES (OPERATOR)	***************************************	· · · · · · · · · · · · · · · · · · ·	State (Lease)	****************
				in the NW 1/2 BW 1/4 of	
г. 188, r. 28E , <sub>МРМ.</sub>	- 10 <del>50 10 10 10</del> 00 0 0 0 0 0 0 0 0 0 0 0 0 0	Artesia	Paol,	Eddy	County
The Dates of this work were as folo	W1:	***************************************	July 23, 2	4, & 25, 1952	· 
Notice of intention to do the work	(was) <b>Res</b>	• submitted on Form	C-102 on June	25. 1952 (Gross out incorrect words)	19
and approval of the proposed plan				(Closs onf incollect motes)	
		test, vocation.		•	
ra Tables		ACCOUNT OF WORK	DONE AND RESU	LTS OBTAINED	
Ran tub: and pumped in (all of it). in hole. Fil	ing to ing to in fluid Set l	ACCOUNT OF WORK  2300: Pumped  1 containg 40  10 sacks cemer	in 10 sack sacks mud, it plug at ' laden fluid	a cement. Raised to Pulled 717 of 8 9 7001. There was no and set marker at 1	5/8" 10 3/4
Ran tub: and pumped in (all of it). in hole. Fil	ing to ing to in fluid Set l	2300: Pumped containg 40 sacks cemer	in 10 sack sacks mud, it plug at ' laden fluid	s cement. Raised to Pulled 717 of 8 9	5/8" 10 3/4
Ran tub: and pumped in (all of it). in hole. Fil	ing to ing to in fluid Set l	2300: Pumped containg 40 sacks cemer	in 10 sack sacks mud, it plug at ' laden fluid	s cement. Raised to Pulled 717 of 8 9	5/8" 10 3/4
Ran tub: and pumped in (all of it). in hole. Fil	ing to ing to in fluid Set l	2300: Pumped containg 40 sacks cemer	in 10 sack sacks mud, it plug at ' laden fluid	s cement. Raised to Pulled 717 of 8 9	5/8" 10 3/4
Ran tub: and pumped in (all of it). in hole. Fill in lo sacks of	ing to fluid Set 1 led hosement	2300: Pumped containg 40 to sacks cemer ple with mud le plug. ABANDO	in 10 sack sacks mud. at plug at pladen fluid ONED.	e cement. Raised to Pulled 717 of 8 9 7001. There was no and set marker at 1	5/8" 10 3/4
Ran tubi and pumped in (all of 1t). in hole. Fil in 10 sacks o	ing to fluid Set 1 led hosement	2300: Pumped containg 40 to sacks cemer ple with mud le plug. ABANDO	in 10 sack sacks mud, it plug at ' laden fluid	s cement. Raised to Pulled 717 of 8 9	5/8" 10 3/4
Ran tub: and pumped in (all of 1t). in hole. Fil in 10 sacks of	ing to fluid Set 1 led ho sement	2300: Pumped containg 40 to sacks cemer ple with mud plug. ABANDO	in 10 sacks sacks sacks sacks sadd.  It plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the plug at the pl	Pulled 717 of 8 9 7001. There was no and set marker at 1	5/8" 10 3/4 Sop
Ran tub: and pumped in (all of it). in hole. Fill in 10 sacks of  Vitnessed by	ing to set like the sement	2300: Pumped containg 40 to sacks cemer ple with mud plug. ABANDO	in 10 sacks sacks sacks sacks sad, at plug at 'laden fluid NED.	rethe information given above is true	5/8" 10 3/4 cop

Flynn Welch
State 647 # 41
1570 FSL & 250 FWL
Section 3-18s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 2,428 feet
API #30-015-01793
Date Drilled: 5/7/26

Date Plugged: 3/49 & 1/26/82

Casing: 10"
Hole Size:
Depth: 374'
Cement:

Plug #3 Surface 8 sx

Pulled 244' of 10 3/4" casing

Re-entry to 325' in 1981 Plug #2 325' 200 sx

Casing: 8 1/4" Hole Size: Depth: 715' Cement:

Plug #1

1800'

115 sx

TD: 2428

18. I hereby certify that the information above is true and complete	e to the best of my knowledge and belief.	<u>-</u>		
Leon Standard	rive Field Engineer	0416_	1-26-	<u>82</u>
mhy Williams	OIL AND GAS INSPECTOR	0476_	FEB 4	1982

COMDITIONS OF APPROVAL, IF ANYI

## • P&A wells within 1/2 mile of : Melrose Operating Company, Artesia Unit, C-108 Injection Application of 8/25/00 **WELLBORE DIAGRAM**

ELL NAME: Humble Stout State

WELL NO: 1

LOCATION: 2310' FSL 330' FEL Unit: I Section: 4 TWNS: T-18-S Range: R-28-E Eddy Co. NM

API NO. 30-015-02590

DATE P&A: 6/24/71

POOL: Artesia

10 sx cmt plug @ top & set mkr.

25 sx cmt plug @ 505'

**Surface Casing:** 

Depth:

505'

Hole Size:

12-1/4" 8-5/8" 24#

Size & Weight:

Cmt./Sx.

50 sx

25 sx cement plug € 1510'

Perfs: 2505'-2526'

Form: \*\*\*\*

**Anticipated Perfs:** 

25 sx cement plug

**Production String:** 

N/A

Depth: **Hole Size:** 

Size & Weight:

Cmt./Sx.

TD: 2526'

Date: 8/22/00 aer

TILE 1 V AUG 3 1	971	Sa. Indicate Type of Lease State X
OPERATOR I ARTESIA, OF		5. State Cil & Gas Lease No
SUNDRY NOTICES AND REPORTS THIS TORM FOR PROPOSED TO BRILL OR TO BEEFE OF PL THE TORM FOR PROPOSED TO BRILL OR TO BEEFE OF PL THE TORM STORY FOR THE TORM STORY FOR THE TORM STORY FOR THE TORY FOR THE TORM STORY FOR THE TORM STORY FOR THE TORY FOR THE T	ON WELLS UC BACK TO A DIFFERENT RESERVOIR. SUCH PROPOSALS.)	7. Unit Agreement Name
OIL WELL OTHER-		8. Form or Lease Garac
AMERICAN PETROFINA COMPANY OF TEXAS  3. Address of Operator		Humble Stout State 9. Well No.
Box 1311, Big Spring, Texas 79720		13. Field and Pool, or Wilder
THE SOUTH LINE, SECTION 4 TOWNSHIP 185	T LINE AND 2310 PEET PROM	
15. Elevation (Show when		12. County Eddy
Check Appropriate Box To Indicate		1
PERFORM REMEDIAL WORK  TEMPORARILY ABANDON  PULL OR ALTER CASING  OTHER	REMEDIAL WORK  COMMENCE OR ILLING OPNS.  CASING TEST AND CEMENT JOS  OTHER	ALTERING CASING PLUG AND ABANDONNO
17. Describe Proposed or Completed Operations (Clearly state all partinent work) SEE RULE 1703.  6-23-71. Set 2 <sup>st</sup> tubing at TD and spotted		
fluid as displacing medium. Pul	led tubing up to 1510'.	
6-24-71 Spotted 25 sk. cement plug at 15 25 sk. cement plug. Pulled tubi 8 5/8" casing and set 4 1/2" pipe	10'. Pulled tubing up to ng. Placed 10 sk. cement marker.	505' and spotted plug in top of
		(pow)
		•
18. I hereby certify that the information shove is true and complete to the be	at of my knowledge and belief.	
AIGHED R.C. BOLT TITLEAS	sistant Dist. Kgr of Prod	uction 7/30/71
2//	•	MODIT 12:

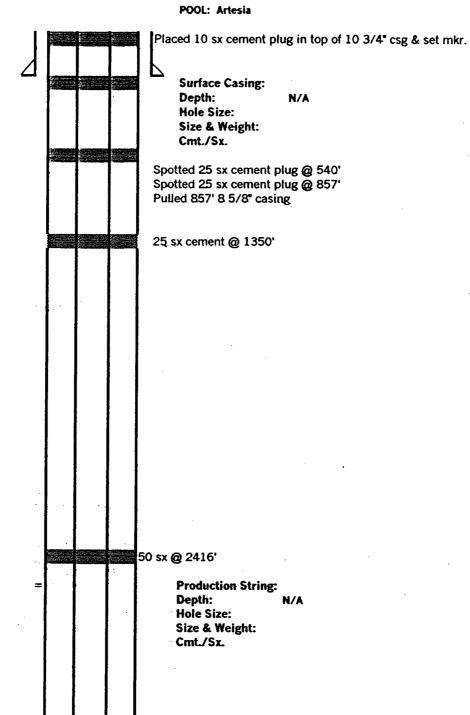
## **WELLBORE DIAGRAM**

WELL NAME: Levers State WELL NO: 5

LOCATION: 1082' FSL 1562' FEL Unit: O Section: 4 TWNS: T-18-S Range: R-28-E Eddy Co. NM

API NO. 30-015-02573

DATE P&A: 2/4/71



TD: 2416'

Date: 8/22/00 aer

Perfs:

Form:

N/A

N/A

NO. OF COPIES RECEIVED	<b>.</b>	n - C.133
	<del>'-</del>	Form C-103 Supersedes Old
DISTRIBUTION		C-102 and C-103
SANTA FE 7	NEW MEXICO DIL CONSERVATION COMMISSION	Effective 1-1-65
E	7	
s.c.s.	<b>-</b> 35 ± 5	5a. Indicate Type of Lease
LAND OFFICE	MATERIAL DESIGNATION OF THE SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SE	State St. Fee.
OPERATOR )		S. State Oil & Gas Lease No.
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STIND	RY NOTICES AND FREFORTS ON WELLS	
GO NOT USE THIS FORM FOR PE	ROPOSALS TO DELLA OR TO DEEPEN OR PLUG SACK TO A DIFFERENT RESERVOIM.	
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OIL WELL WELL	OTHER•	***
2. Name of Operator		e. Form or Leage Rame
<b>1</b>	COMMAND ON THERAS	
AMERICAN PETROFINA	CURPANI OF TEXAS	Levers State
J. Address of Operator		9. Well No.
Box 1311, Big Spri	ng, Texas 79720	5
4. Location of Weil		10. Fleid and Pool, or Wildeat
UNIT LETTER O	1082 PLET PROM THE South LINE AND 1562 PERT PE	Artesia
THE BEST LINE, SECT	TION 4 TOWNSHIP 185 RANGE 28E HM	
	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	3654 GR	Eddy
dillinininininininininininininininininin		
Check	Appropriate Box To Indicate Nature of Notice, Report or	Other Data
NOTICE OF I	INTENTION TO: SUBSEQUE	INT REPORT OF:
PERFORM REMEDIAL WORK	PLUE AND ADANDON REMEDIAL WORK	ALTERING CASING
PORARELY ABANDON	COMMENCE DRILLING OFNS.	PLUG AND ABANDONMENT
OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOB	· ·
	OTHER	
OTHER		
17. Describe Proposed or Completed C	Operations (Clearly state all pertinent details, and give pertinent dates, Includ	ing estimated date of starting any propos
work) SEE RULE 1003.	( Pow)	.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1-28-71 Ran 2-3/8"		
1-29-71 Spotted 50	sx cement on bottom through tubing using sud	laden fluid as
displacing	medium. Fulled tubing up to 1350 and spotte	d 25 sx cement plug.
	minder of tubing.	
	/8" casing loose and pulled (857')	
	tubing to 857 and spotted 25 ax cament plug.	
	ing to 540' (Bottom of 10-3/4") and spotted 25	
	ing, placed 10 sx cement plug in top of 10-3/4	cering and sac
4-1/2" pip	e batket.	
		1
		!

that the information above is true and complete to the best of my knowledge and belief. M. Denson Hitt Asst. District Mgr. of Production OIL AND GAS INSPECTOR

McGonagille Carper State #1 330 FNL & 330 FEL Section 4-18s-28e **Eddy County, New Mexico Ground Elevation:** Total Depth: 2,818 feet API #30-015-02557 Date Drilled: 12/31/48

Status:

Casing: 10 3/4"

Hole Size: Depth:

285'

Cement:

8 1/4"

Casing: Hole Size:

Depth:

535'

Cement:

Casing:

Hole Size:

Depth:

1913

Cement:

20 sx

TD: 2818'

EVA	MO	15057489720
rhx	NU.	_ 15057488720

P. 16/25

e.c.	サケリ ~ し	
PORM C-100	CONSERVATION COMMISSION	Of Continue
PLICAT MEXICO OIL Base  Base  MISCELLAN	CONSERVATION COMMISSION ta Fe, New Mexico	OCT 3 10.
MISCELLAN	EQUS REPORTS ON WELL	194;
Submit this report in triplicate to the Oil Conserve work specified is completed. It should be signed delling operations results of shooting well, results	ation Commission or its proper agent	within tenders after the
work specified is completed. It should be signed drilling operations, results of shouling well, result other important operations, even though the work	ts of test of casing shut-offs, result	of plugging of well Card
operations need not be signed and sworn to below	e a notary public. See additional inst	tructions in the Rules and
Regulations of the Commission.	e of report by checking below:	
	REPORT ON REPAIRING WELL	
REPORT ON BEGINNING DESILING OPERATIONS	REPORT ON PULLING OR OTH	ERWISE
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL	ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		
A		ptember 29, 19/1
OIL CONSERVATION COMMISSION	Place	Date
Santa Fe, New Mexico. Gentlemen:		
Following is a report on the work done and the r		
Company or Operator	Doughorty Well No	. 1 State in the
	,T18, R28	, N. M. P. M.,
Old Field,		
The dates of this work were as follows:	July 14, 1941 ——————————————————————————————————	
Notice of intention to do the work was (was 1904)	submitted on Form C-102 on	19
and approvalof the proposed plan was (was not)	work done and results obtained	B.)
DETAILED ACCOUNT OF	WORK DONE AND RESULTS OFF	
W-3341	weekly DE washen we assessed Tools	- 7/ 70/3
Halliburton ran 1902' of 7" casing After allowing the cement to set t	he plug was drilled out and	y 14, 1741. no water appeared
in the hole.	• • • • • • • • • • • • • • • • • • • •	i ••
		1
Witnessed byAlox McGonegill.	Company	Title
were		
·	I hereby swear or affirm t above is true and correct,	that the information given
Subscribed and sworn to before me this	Nama Emille	Carple
mary Lucille Cerlin	Position	
may Lycelle Carlyin	POSITION Constitution	_
Notzry Public	Representing CarperDi	Company or Operator
My Commission expires May 23, 1942	Address Artasia,	New Mexico
Remarks:	W.	80 110 00 00
	110	y warne
•	OIL A	GAS INSPECTOR
	<u>نىيابىلىمى</u>	Tite

(Form C-103) (Revised 7/1/52)

## NEW MEXICO OIL CONSERVATION CON 1ISSION Santa Fc, New Mexico

# MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the

result of well repair, and other in instructions in the Rules and Regi	nportant ope	crations, even thoug			
		Indicate Nature of	Report by Checking B	elow	
REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON R	ESULT OF TEST	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	×	REPORT ON R OPERATION	ECOMPLETION	REPORT ON (Other)	
		<b>Ho</b>	<b>Vember 28, 1952</b>	Artesia,	New Mexico
Following is a report on the	work done		•	noted above at the	
CARPER DRILLING	COMPANY	INC.		McGonagill State	<u> </u>
	-	***************************************	, Well No. 1	in the MB 1/4 MB	
T. 18 S , R. 28 E , NMPM.,	Arte	ia	Pool,	Eddy	County
The Dates of this work were at folo-	ws. Sept	. 26 & 27, 1	952	***************************************	
Notice of intention to do the work	(wai) ( <b>*25</b>	met) submitted on F	Form C-102 on	April 25	19 52
Hole was filled with he plug was spotted. Fill spotted another 5 sack to 550' followed by 5 regulation marker. Cl	led with coment sacks co	mud back to plug. After ment. Mudde	base of 7" O.D. salvaging casin	casing at 1902' at g, hole was mudded	nd
	. <b>'</b>				
Witnessed by R. D. Colla	à. Ar	Allia	i Supply Company		
(Nan	no)	•••••••	(Company)	(Title)	***************************************
Approved: OIL CONSERVATION	у соммі	SSION	I hereby certify that to the best of my k	t the information given above nowledge.	is true and complete
K.a. Vo	ensi	nc	Name Sta	nley Carper Stan	lulearon
(Na	me)				es.
OIL AND GAS INSPECTOR		DEC 1 195	¿ Kepresenung	ARPER DRILLING CO.	, INC.
(Title)		(Date)	Address	rtesia, New Mexico	

Malony-Chambers
State #1
2390 FNL & 1070 FEL
Section 4-18s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 2,500 feet
API #30-015-02559
Date Drilled: 12/15/25
Date Plugged:

Casing: Hole Size: Depth: Cement:

Casing: Hole Size: Depth: Cement:

TD: 2500

Frontier Petroleum
McQuiqq #5
1570 FSL & 1570 FEL
Section 4-18s-28e
Eddy County, New Mexico
Ground Elevation:
Total Depth: 2,408 feet
API #30-015-02565

API #30-015-02565 Date Drilled: 12/23/25 Date Plugged: 10/60

Casing:

Hole Size: Depth:

Cement:

10 sx @ surface

25 sx @ 300'

Casing: Hole Size: Depth: Cement:

Cement from T D to 1950'

TD: 2408

# MISCELLANEOUS REPORTS ON WELLS

Well No.   Unit Letter   Section   Township   18S   28E	Name of Company Granidge (	Corporation	•	Addres		752 - Breck	D. C. C. MPT856: PEXSS
Date Work Performed See below  THIS IS A REPORT OF: (Check appropriate block)  THIS IS A REPORT OF: (Check appropriate block)  Beginning Drilling Operations  Casing Test and Cement Job  Plugging  Remedial Work  Detailed account of work done, nature and quantity of materials used, and results obtained.  7-9-60  Placed 50 sacks of cement from T. D. to approximately 1950'. Filled hole with heavy mud to 300', spot 25 sacks cement from 300' and set marker	Lesse		Well No.			nehip	Range
Beginning Drilling Operations		d Pool		/		Eddy	
Plugging Remedial Vock  Detailed account of work done, nature and quantity of materials used, and results obtained.  7-9-60 Placed 50 sacks of cement from T. D. to approximately 1950'. Filled hole with heavy mud to 300', spot 25 sacks cement from 300' and set marker							
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7-9-60 Placed 50 sacks of cement from T. D. to approximately 1950'. Filled hole with heavy mud to 300', spot 25 sacks cement from 300' and set marker	Plugging		Remedial Vor	ık			
with heavy mud to 300', spot 25 sacks cement from 300' and set marker	Detailed account of	work done, neture as	d quantity of material	s used, and res	ulto obtained.		
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Paul	Darnell	· .	Super	intend		Grari	idge Corpora	tion
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			ORIGIN	AL WELL	DATA			
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Approved by	N. a. G	resset		Name	1	00	l udr	us d
Title	OIL AND BAS INS	PECTUD .	45 (	Positi	- Pro	C. Andrew	s. Jr.	
Date	SEP 1 5 196	90.00	E-A	Comp		ridge Cor	poration	

' FORM C-103

# NEW MEXI. OIL CONSERVATION COMMISSIC DE Santa Fo. New Mexico

## MISCELLANEOUS REPORTS ON WELLS

Submit this report in trip!	icate to the Oil Conservation C	ommission or its proper as	ent within ten day	s after the work
specified is completed It	should be signed and sworn to	before a notary public i	or reports on be	ginning drilling
operations, results of shoo	ting well, results of test of ca	sing shut-off, result of	plugging of well,	and other im-
	hough the work was witnessed			
	vorn to before a notary public	. See additional instruction	ons in the Rules	and Regulations
of the Commission.				

of the Commission.	Indicate nature o	or referr of emerging pe		
REPORT ON BEGINNING DRIL	LLING OPERATIONS	REPORT ON	REPAIRING WELL	.
REPORT ON RESULT OF SHOOTE TREATMENT OF WELL	TING OR CHEMICAL	REPORT ON	PULLING OR OTHERWISE 3 CASING	3
BEPORT ON RESULT OF TEST SHUT-OFF	T OF CASING	REPORT ON	DEEPENING WELL	
REPORT ON RESULT OF PLUG	GING OF WELL			
	Arte	BLE, N. Myce	June 24219	<del> </del>
DIL CONSERVATION COMMI Sants Fe, New Mexico.	ISSION,	• • • • • • • • • • • • • • • • • • • •	•	
Gentlemen:				
Following is a report on the v	work done and the result	ts obtained under the he	ading noted above at the	
Frontiam, Ratre	Laun Go.,	Leuse	Well No	in the
NW SE	of Sec	, т	, R	N. M. P. M.,
Artasia	Field,	and was a second		County.
The dates of this work were a	_	wy,		
lotice of intention to do the	work was Iwas not I su'	hmitted on Form C-109	on A 1075	
nd approval of the proposed; DETAILED	plan was [was not] obta ACCOUNT OF WO]			
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Voed plug set et 2 Jumped.no selt.no	:035 ft. on sho water,hele fil	nulder where he led to top and	marker set.	
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tumped.no salt.ne	water, hele fil	Company  I hereby swear or is true and correct.	ATENION SOL	2 15 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
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Sunray DX Oil Bookman State #1 1570 FSL & 1070 FEL Section 4-18s-28e Eddy County, New Mexico **Ground Elevation:** Total Depth: 2,425 feet API #30-015-02560 Date Drilled: 12/25/25

Date Plugged: 2/27/34

Casing: Hole Size:

?

Depth:

? Cement:

Plug #3

Pulled casing to 400'

Surface

Plug #2

500'

5 sx

Casing:

6 5/8"

Hole Size:

Depth:

2425

Cement:

Pulled casing to 1450

Plug #1

1500'

5 sx

2425 TD:

Form 8G 106

## NEW MEXICO STATE LAND OF JE OFFICE OF THE STATE GEOLOGIST

TONGUMENT, AND THE PROPERTY OF A STATE OF COMMENTS OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP

SANTA FE, NEW MEXICO

30-015-02560

#### MISCELLANEOUS REPORTS ON WELLS

Submit this report in duplicate to the State Geologist or proper Oil and Gas Inspector within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of water shut-off, result of abandonment of well, and other important operations, even though the work was witnessed by the State Geologist or Oil and Gas Inspector. Reports on minor operations need not be signed and sworn to before a notary public, but such operations should be witnessed by an Oil and Gas Inspector if possible.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON DEE	··	:	
REPORT ON RESULT OF SHOOTING WE	err .	REPORT ON PUI	LING OR OTHER	WISE	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	·	REPORT ON R	EPAIRING WELL		
REPORT ON RESULT OF ABANDONMENT OF WELL	r T				
Santa Fe, N. Mex. Following is a report on the work d  Blancks Bayl  COMPANY OF SEC.					
Artesia Oil Fi					. Р. м.,
The dates of this work were as fol Notice of intention to do the work	llows: <b>Feb</b>	23 to Peb.	ev1934		on
Feb. 80,	approval of t	he proposed plan	was (was not)	obtained.	(Croes
DETAILED ACCOUNT	OF WORK I	OONE AND RES	ults obtain	ED	

Pulled 6-5/8 casing to I450 filled hole to I500 with mudladen fluid and put in 5 feet of rock and set 5 sacks of cement with dump bottom bailer pulled the casing to 400feet and filled the hole with mudladen fluid to 500 and put in 5 ft. of rock and set 5 sacks of cement with dump bottom bailer pulled the rest of the casing and filled the bole to the top with mudladen fluid and put a piece of pip extending 4 feet above the surface as a permenant marker.

# **JUPLICATE**

Subscribed and sworn to before me this  It day of Ward, 1934  Research  My commission expires Jamy, 22, (938)	I hereby swear or affirm that the information given above is true and correct.  Name  Position Plugging Contracto  Representing Blanche Beyl  Address Box 223 Big Spring Pox.
Remarks:	MAR 2 - 1934 APPROVED AS O. X. BY

Amoco

Empire South # 19

2280 FNL & 660 FEL

Section 36-17s-28e

Eddy County, New Mexico Ground Elevation: 3692.9'

Total Depth: 11,200' feet

API #30-015-22543

Date Drilled: 4/15/82

Date Plugged: 12/3/86

Casing: 13 3/8"

Hole Size: Depth:

289'

Cement: 400 sx

Casing:

8 5/8"

Hole Size:

2906'

Depth: Cement: 1400 sx

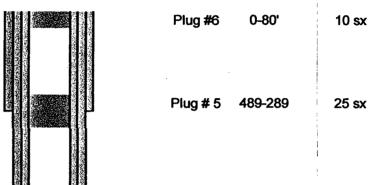
Casing: 5 1/2"

Hole Size:

Depth: 11,200'

Cement: 2300 sx

TD: 11,200'



Perf 3007-3006, set cement retainer at 2855. Pump 600 sx, circulate 35 sx, dump cement on top of retainer.

Plug #3	5295-5495	25 SX
Plug #2	6530	25 sx
Plug #1 CIBP	7655-7690 7690'	na

STALE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	
OIL CONSERVATION DIVISION DISTRIBUTION F. O. BOX 2088 SANTA FE, NEW MEXICO 37501	N Ferm C-103 Revised 19-1-7.
U.S.G.2.  LAND OFFICE  GPERATOR  W  30-015-22543	State X Fee 5. State Oil & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WELLS	7. Unit Agreement Number
2. Name of Operator	8. Fam of Lease liame
Amoco Production Company	Empire South Deep Unit
P. O. Box 68 Hobbs, NM 88240	9. Well Na.  19  10. Field and Pool, or Wildean A
WHIT LETTER H 2280 PEET PROM THE NORth LINE AND 660	Emoise Suth Wolfcom
THE East LINE, SECTION 36 TOWNSHIP 17-S RANGE 28-E	
15. Elevation (Show whether Of, RT. GR. acc.) 3692.9 RDB	12. County Eddy
Check Appropriate Box To Indicate Nature of Notice, Re	
NOTICE OF INTENTION TO:	BSEQUENT REPORT OF:
PENFORM DEMENDE WORK  TEMPORABILY ABANDON  PULL OR ALTER CARING  CHANGE PLANS  CHANGE PLANS  OTHER	
THER	
17. Describe Proposed or Completed Operations (Clearly state all pertinent destils, and give pertinent data works see nuce tos.	es, including estimated dute of starting any proposed
MI-RUSU 11-26-86. POH w/production equip. RIH by wireline CIBP RIH tubing. Test CIBP to 500#. OK. Circulate hole clean 170 bb w/25# gel/bbl. Cap CIBP w/35 ft Class H neat cement. Pull to 69 cement (Class H neat) plug to 6340'. Pull up to 5495' and spot 20 plug to 5295'. Pull tubing. RIH w/3-1/8" casing gun and perf 30 RIH w/cement retainer and set at 2855. Establish inj rate 2-1/2 600 sx Class H cement and circulate 35 sacks cement. Sting out cement on top of retainer. PU. Spot 25 sx Class H cement to 489 10 sx Class H cement plug 80 ft to surface. Dig out cellar. Cut on PxA marker. Fill in cellar. RD-MOSU 12-3-86.	Is 10# brine water 530 and spot 25 sacks 25 sacks Class H cement 007' to 3006' 4 JSPF. BPM at 300#. Pump 0f retainer and dump 0-289. PU and spot
	Post ID-2 12-26-86
	P <del>-</del> VPT
id. I nevery conity that the information above to true and complete to the treat of my knowledge and belief.	
Steve Brownlee Admin. Analyst	12-9-86

#### CERTIFICATE OF APPROVAL

# COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO ARTESIA UNIT

#### EDDY COUNTY, NEW MEXICO

#### WATERFLOOD PROJECT

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, the attached Agreement for the development and operation of acreage which is described within the attached Agreement, dated FEBRUARY 1, 1967, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

- (a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.
- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
- (d) That such agreement is in other respects for the best interests of the state, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 7-11-39, 7-11-40, 7-11-41, 7-11-47, and 7-11-48, New Mexico Statutes Annotated, 1953 Compilation, I, the undersigned, Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 18th. day of OCTOBER , 19 67 .

COMMISSIONER OF PUBLIC LANDS

of the State of New Mexico

# ARTESIA POOL (Depco Camp Artesia Waterflood) Eddy County, New Mexico

Order No. R-4027, Authorizing Depco, Inc., to Institute the Depco Camp Artesia Waterflood Project in the Artesia Pool, Eddy County, New Mexico, September 10, 1970.

Application of Depco, Inc., for a Waterflood Project, Eddy County, New Mexico.

CASE NO. 4415 Order No. R-4027

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on September 2, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of September, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

- (1) That due public notice having been given as required by w, the Commission has jurisdiction of this cause and the law, the Commission subject matter thereof.
- 2) That the applicant, Depco, Inc., seeks authority to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg and San Andres formations through five injection wells in Sections 27, 33, and 34, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant further seeks an administrative procedure whereby said project could be expanded to include additional lands and injection wells in the area of the said project as may be necessary in order to complete an efficient injection pattern; that said administrative procedure should provide for administrative approval for conversion to water injection in exception to the well response requirements of Rule 701 E-5 of the Commission Rules and Regulations.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations; provided, however, that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to retering the state of the conversion of additional wells to water injection.
- (7) That Order No. R-3454, which previously authorized water injection for disposal into one of the subject wells, should be superseded.

IT IS THEREFORE ORDERED:
(1) That the applicant, Depco, Inc., is hereby authorized to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg and San Andres formations through the following-described wells in Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico:

Depco State 647 Well No. 100 - Unit A - Section 27 Depco State 647 Well No. 82 - Unit F - Section 27 Depco State 647 Well No. 92 - Unit N - Section 27 Depco State 647 Well No. 207 - Unit I - Section 33 Depco State 647 Well No. 217 - Unit E - Section 34

(2) That the subject waterflood project is hereby designated the Depco Camp Artesia Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of the Depco Camp Artesia Waterflood Project on the State 647 Lease to include such additional lands and injection wells in the area of the project as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for the conversion of additional wells to water injection.

- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
  - (4) That Order No. R-3454 is hereby superseded.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

# (EUNICE (GRAYBURG-SAN ANDRES WATERFLOOD) POOL - Cont'd.)

- (2) That the subject waterflood project is hereby designated the Texaco Eunice Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

ARTESIA POOL
(International Oil & Gas Queen-Grayburg-San Andres Waterflood
Project Amendment)
Eddy County, New Mexico

er No. R-2869-A, Authorizing the Substitution of Injection is in the Queen-Grayburg-San Andres Waterflood Project the Artesia Pool, Eddy County, New Mexico, April 29, 1968.

Application of Depco, Inc., for an Amendment to Order No. R-2869, Eddy County, New Mexico.

CASE NO. 3747 Order No. R-2869-A

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on April 17, 1968, at Hobbs, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 29th day of April, 1968, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

#### FINDS

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-2869, International Oil & Gas Corporation was authorized to institute a waterflood project in the

Artesia Pool by the injection of water into the Queen, Grayburg, and San Andres formations through nine wells in Sections 10 and 11, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.

(3) That the applicant Depco, Inc., as successor to International Oil & Gas Corporation, seeks the amendment of said Order No. R-2869 to substitute the following-described water injection wells:

#### EDDY COUNTY, NEW MEXICO TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

WELL	LOCATION	SECTION
Dunn "B" No. 5	NE/4 SE/4	11
Dunn "A" No. 1	SW/4 NE/4	12
Dunn "B" No. 6	SW/4 SW/4	12

in lieu of the following-described wells which were included in the originally-authorized water injection wells:

#### EDDY COUNTY, NEW MEXICO TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

WELL	LOCATION	SECTION
Dunn "B" No. 15	SW/4 NW/4	10
Dunn "B" No. 19	SW/4 NE/4	10
Dunn "B" No. 21	SW/4 NW/4	11

(4) That approval of the subject application will not violate correlative rights and should increase the efficiency of the waterflood project and result in greater ultimate recovery of oil, thereby preventing waste.

#### IT IS THEREFORE ORDERED:

(1) That Order No. R-2869 is hereby amended by deleting from the water injection wells authorized therein the following-described wells:

#### EDDY COUNTY, NEW MEXICO TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

WELL	LOCATION	SECTION
Dunn "B" No. 15	SW/4 NW/4	10
Dunn "B" No. 19	SW/4 NE/4	10
Dunn "B" No. 21	SW/4 NW/4	11

and substituting in lieu thereof as water injection wells the following-described wells:

#### EDDY COUNTY, NEW MEXICO TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

WELL	LOCATION	SECTION
Dunn "B" No. 5	NE/4 SE/4	11
Dunn "A" No. 1	SW/4 NE/4	12
Dunn "B" No. 6	SW/4 SW/4	12

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

ARTESIA POOL
(Depco Artesia Waterflood Project Expansion)
(Formerly Highway Waterflood Project)
Eddy County, New Mexico

Order No. R-3311, Authorizing Depco, Inc. to Expand its Highway Waterflood Project in the Artesta Unit Area and Redesignate as Depco Artesia Waterflood Project, Artesia Pool, Eddy County, New Mexico, September 11, 1967.

Application of Depco, Inc., for a Waterflood Project, Eddy County, New Mexico.

CASE NO. 3653 Order No. R-3311

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on September 6, 1967, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 11th day of September, 1967, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Depco, Inc., as successor to International Oil and Gas Corporation, operates a waterflood project in the Artesia Pool pursuant to Order No. R-2876, dated March 5, 1965, by the injection of water into the Grayburg formation through two wells located in Sections 25 and 36, Township 17 South, Range 28 East.
- (3) That the applicant seeks permission to expand said waterflood project in its Artesia Unit Area, Artesia Pool, by the injection of water into the Grayburg formation through 15 additional injection wells in Sections 26, 34, 35, and 36, Township 17 South, Range 28 East, and Sections 2 and 3, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.

- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Depco, Inc., is hereby authorized to expand its Highway Waterflood Project in its Artesia Unit Area, Artesia Pool, by the injection of water into the Grayburg formation through the following-described wells in Eddy County, New Mexico:

OPERA- TOR	LEASE	WELL NO.	UNIT	SEC- TION	-	OWN- SHIP M	R	ANGE
Depco	State 647 -	164	M	26	17	South	20	Foot
Depco	State 647	169	M O	26 26	17	South		
Depco	Delhi State	103	×	34	17	South		
			ō					
Depco	WelchState	2	E G	35	17			
Depco	MRY State	2	Ģ	35	17	South	28	East
Depco	Sinclair B							
-	State	1	M	35	17	South	28	East
Depco	Castle State	2	Ö	35	17	South	28	East
Depco	State 647	139	OE	36	17			
Depco	Sinclair B		F	••				
Depeo	State	2	M	36	17	South	20	Fact
Depco	State A	2	Ē	2		South		
			ے	4	10	South	40	East
Depco	Featherstone		_ _	_				
	State B	7	M	2	18	South	28	East
Depco	Lanning State	1	E	3	18	South	28	East
Depco	State 647	130	G	3	18	South	28	East
Depco	State 647	38	M	3	18			
Depco	Resler State	2	ö	3		South		
Depeo	regiet plate	-	Ĭ	."	10	Journ	20	Last

- (2) That the subject waterflood project is hereby redesignated the Depco Artesia Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

# ARTESIA POOL (Penroc Phillips Artesia Waterflood Project) Eddy County, New Mexico

Order No. R-3494, Authorizing Penroc Oil Corporation to Institute a Waterflood Project in the Grayburg Formation in the Artesia Pool, Eddy County, New Mexico, September 12, 1968,

Application of Penroc Oil Corporation for a Waterflood Project, Eddy County, New Mexico.

CASE NO. 3849 Order No. R-3494

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on September 4, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 12th day of September, 1968, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Penroc Oil Corporation, seeks permission to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg formation through its Phillips State Well No. 4, located in Unit I of Section 27, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Penroc Oil Corporation, is hereby authorized to institute a waterflood project in the Artesia Pool by the injection of water into the Grayburg formation through its Phillips State Well No. 4, located in Unit I of Section 27, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (2) That the subject waterflood project is hereby designated the Penroc Phillips Artesia Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

(3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

Vow Marbob Energy N.C. Phillips # 4

#### ATOKA-SAN ANDRES POOL (Kewanee Waterflood) Eddy County, New Mexico

Order No. R-3476, Authorizing Kewanee Oil Company to Institut a Waterflood Project in the Atoka-San Andres Pool, Edd County, New Mexico, August 20, 1968.

Applicant of Kewanee Oil Company for a Water-flood Project, Eddy County, New Mexico.

CASE NO. 383: Order No. R-3476

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing a 9 a.m. on August 7, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 20th day of August, 1968, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Kewanee Oil Company, seeks permission to institute a waterflood project in its Atoka-San Andres Unit Area, Atoka-San Andres Pool, by the injection of water into the San Andres formation through 26 injection wells in Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That two pilot waterflood projects have been conducted in the subject area under authority of Commission Orders Nos. R-2955 and R-3192.
- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, Kewanee Oil Company, is hereby authorized to institute a waterflood project in its Atoka San Andres Unit Area, Atoka-San Andres Pool, by the injection of water into the San Andres formation through the following-described wells in Township 18 South, Range 26 East, NMPM, Eddy County, New Mexico:

Well No.	Unit	Section	
	!		
1	NE/4 SW/4	10	
3		10	
4		10	
Ž		11	
6	NE/4 NW/4	11	
2	NW/4 SW/4	11	
1	SE/4 SW/4	11	
	1 3 4 2 6	1 NE/4 SW/4 3 SE/4 SE/4 4 SE/4 NW/4 2 SE/4 NW/4 6 NE/4 NW/4 2 NW/4 SW/4	

#### HIGH LONESOME POOL (International Oil & Gas Waterflood Expansion) Eddy County, New Mexico

Order No. R-2864, Authorizing International Oil & Gas Corporation to Expand the High Lonesome Waterflood Project in the High Lomesome Pool, Eddy County, New Mexico, February 11, 1965.

Application of International Oil & Gas Corporation for Expansion of a Waterflood Project, Eddy County, New Mexico.

CASE NO. 3194 Order No. R-2864

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on January 27, 1965, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 11th day of February, 1965, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- That the applicant, International Oil & Gas Corporation, permission to expand its High Lonesome Waterflood Project authorized by Order No. R-2458 in the High Lomesome Pool by converting to water injection three wells located in Units A, B, and J of Section 15, Township 16 South, Range 29 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the proposed project area are in an advanced state of depletion and should property be classified as "stripper" wells.
- (4) That the proposed expansion of the High Lonesome Waterflood Project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the expanded project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, International Oil & Gas Corporation is hereby authorized to expand its High Lonesome Waterflood Project in the High Lonesome Pool by converting to water injection the following-described wells in Section 15, Township 16 South, Range 29 East, NMPM, Eddy County, New Mexico:

McCallister Federal Well No. 3, located in Unit A McCallister Federal Well No. 6, located in Unit B McCallister Federal Well No. 5, located in Unit J

(2) That the expanded waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

- (3) That monthly progress reports of the expanded water-flood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

(International Oil & Gas Queen-Grayburg/Waterflood Project)
Eddy County, New Mexico

Order No. R-2876, Authorizing International Oil & Gas Corporation to Institute a Waterflood Project in the Queen and Grayburg Formations in the Artesia Pool, Eddy County, New Mexico, March 5, 1965.

Application of International Oil & Gas Corporation for a Waterflood Project, Eddy County, New Mexico.

CASE NO. 3213 Order No. R-2876

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on February 24, 1965, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 5th day of March, 1965, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, International Oil & Gas Corporation, seeks permission to institute a waterflood project in the Artesia Pool by the injection of water into the Queen and Grayburg formations through two injection wells in Sections 25 and 26, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells,

#### (ARTESIA (INTERNATIONAL OIL & GAS QUEEN-GRAYBURG WATERFLOOD PROJECT) POOL - Cont'd.)

- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, International Oil & Gas Corporation, is hereby authorized to institute a waterflood project in the Artesia Pool by the injection of water into the Queen and Grayburg formations through the following-described wells in Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico:

International-Yates State 647 Well No. 194, located in the SW/4 SW/4 of Section 25, and International-Yates State 647 Well No. 191, located in the NW/4 NW/4 of Section 36.

- (2) That the subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

# ARTESIA POOL (International Oil & Gas Queen-Grayburg-San Andres Waterflood Project) Eddy County, New Mexico

Order No. R-2869, Authorizing International Oil & Gas Corporation to Institute a Waterflood Project in the Queen-Grayburg-San Andres Formations in the Artesia Pool, Eddy County, New Mexico, February 11, 1965.

Application of International Oil & Gas Corporation for a Waterflood Project, Eddy County, New Mexico.

CASE NO. 3202 Order No. R-2869

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on January 27, 1965, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 11th day of February, 1965, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, International Oil & Gas Corporation, seeks permission to institute a waterflood project in the Artesia Pool by the injection of water into the Queen, Grayburg, and San Andres formations through nine injection wells in Sections 10 and 11. Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (5) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

IT IS THEREFORE ORDERED:

(1) That the applicant, International Oil & Gas Corporation, is hereby authorized to institute a waterflood project in the Artesia Pool by the injection of water into the Queen, Grayburg, and San Andres formations through nine wells at the following-described locations in Eddy County, New Mexico:

#### TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

WELLS	LOCATION	SECTION	
International-Yates-Dunn			
'B'' Federal	i .		
Well No. 13	NE/4 NE/4	10	
Well No. 17	NE/4 NW/4	10	
Well No. 15	SW/4 NW/4	10	
Well No. 19	SW/4 NE/4	ĩŏ	
Well No. 24	NE/4 SE/4	ĩŏ	
Well No. 18	NE/4 NW/4	iĭ	
W CIT 1100 TO	ME/4 MW/4	7.7	
Well No. 21	SW/4 NW/4	11	
Well No. 29	SW/4 NE/4	11	
Well No. 30 (undrilled)	NE/4 SW/4	11	

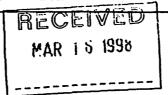
- (2) That the subject waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87506 (506) 827-7131



ADMINISTRATIVE ORDER NO. WFX-733

APPLICATION OF SDX RESOURCES, INC. TO EXPAND ITS WATERFLOOD PROJECT IN THE ARTESIA POOL IN EDDY COUNTY, NEW MEXICO

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order No. R-3311, SDX Resources, Inc. has made application to the Division on December 1, 1997 for permission to expand its Artesia Unit Waterflood Project in the Artesia Pool in Eddy County, New Mexico.

## THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection well is eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
  - (6) The application should be approved.

#### IT IS THEREFORE ORDERED THAT:

The applicant, SDX Resources, Inc., be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 2072 feet to approximately 2600 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described wells for purposes of secondary recovery to wit:

# Artesia Unit Well No.1 1650' FSL & 460' FWL

Unit Letter 'L', Section 26, Township 17 South, Range 28 East
Injection Interval: 2072 feet to 2600 feet
Packer Setting: 1972 feet
Maximum Injection Pressure: 394 psig

Located in Eddy County, New Mexico.

#### IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than .2 psi per foot of depth to the uppermost injection perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Grayburg or San Andres formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

Administrative Order WFX-733 SDX Resources, Inc. March 4, 1998 Page 3

The subject well shall be governed by all provisions of Division Order No. R-3311, as amended and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 4th day of March, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

ORI WROTENBERY

Director

SEAL

LW/BES/kv

cc: Oil Conservation Division - Artesia

# Order #WFX-768

# **Order WFX-768 Stipulations**

# **Order WFX-768 Compliance**

- 1. Squeeze Artesia Unit Well #12
- 2. Squeeze Artesia Unit Well #13
- 3. Provide evidence Empire ABO Unit Unit G#38 has TOC greater than 1700.

- 1. Squeezed Artesia Unit Well #12 & circulated cement to surface.
- 2. Squeezed Artesia Unit Well #13 & circulated cement to surface.
- 3. Calculated TOC on Empire ABO Unit G-38 to be 1,545'.

Submit 3 Copies to Appropriate District Office

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103

CONITIONS OF APPROVAL, IF ANY:

Revised 1-1-89

DISTRICT I	OIL CONSERVATION	MINVISION		
P.O. Box 1980, Hobbs, NM S8240	P.O. Box 20	4. 3	WELL API NO.	
RICT II Prawer DD, Artesia, NM 88210	Santa Fe, New Mexico		30 015 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil& Gas Lease No.	E FEE
( DO NOT USE THIS FORM FOR PROD  DIFFERENT RESER  (FORM C-	CES AND REPORTS ON WE PPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PE 101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreeme	ent Name
1. Type of Well: Oil Gas Well Well	OTHER		Artesia Ur	nit
2. Name of Operator Melrose Oper	ating Company		8. Well No. Order WFX-768 for W	/ells #23 & 29
3. Address of Operator			9. Pool name or Wildcat	
c/o P.O. Box 953, Midland, TX	79702 915 684-6381		Artesia, Queen-Grayburg-S	an Andres (03230)
4. Well Location  Unit Letter	Feet From The	Line and	Feet From The	Line
Section 35	Township 17S R	ange 28E	nmpm Eddy	County
	10. Elevation (Show whether	DF, RKB. RT, GR, etc.)	///////////////////////////////////////	1111111111
11. Check A	Appropriate Box to Indicate	Nature of Notice, R	eport, or Other Data	
NOTICE OF INT	ENTION TO:	SUB	SEQUENT REPORT	OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING	CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. PLUG AND	ABANDONMENT
R ALTER CASING		CASING TEST AND CEN	MENT JOB	
OTHER:		OTHER Compliance a	s per Administrative Order \	WFX-768 X
12. Describe Proposed or Completed Op work) SEE RULE 1103.	erations (Clearly state all pertinent details	s, and give pertinent dates, incl	luding estimated date of starting any	proposed
As per administrative Order NO. WF "Prior to commencing injection operainjection), the Empire Abo Unit G Township I7 South, Range 28 East, N production casing is above approxim Please see attached the NMOCD "Mi unitization of the Empire Abo Unit, t diagram that reflects the top of cemerincor @ 5253', calculated top of 170 submitted by the initial operator in contain Sundry Notice submitted on 8-Division - Artesia, did not contain su	ations into the subject well(s) (well No. 38, located 2310 Feet from MPM, the operator (Melrose) shately 1700 feet, or the operator sliscellaneous Reports on Wells" fithe BP Amoco, Empire Abo Unit at surface behind the 5 1/2" cas sx HYS-400 cement @ surface. Compliance with NMOCD Rule 10-29-01 in an attempt to comply we	Order No. WFX 768 per com the South Line and hall either provide evide hall cement squeeze this iled by Hondo-Western- , Well #38, API # 30 01 sing set @ 6378', cemen Data submitted with thi 07 (107.A). Copy of Ord	rmits the Artesia Unit Well # 1650 Feet from the West Line ince that the top of cement in swell to obtain such results. Yates for the "State A #39 v 5 01739. Also attached is thated with 150 sx 2% gel income is Sundry Notice is the exact lier WFX-768 attached.	ne of Section 35, at the 5 1/2" which is now, after he current wellbore or, estimated top of information
	<b>&gt;</b>			
I hereby certify that the information above is true	<b>&gt;</b> //			
SIGNATURE Ling Culon	7117	Regulatory Agent	DATE	10-23-01
TYPE OR PRINT NAME Ann E. Ritchie			TELEPHON	IE NO. 915 684-6381
ce for State Use)				
APPROVED BY	τιτ	LE	DATE	



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER NO. WFX-768

APPLICATION OF MELROSE OPERATING COMPANY TO EXPAND ITS WATERFLOOD PROJECT IN THE ARTESIA QUEEN-GRAYBURG-SAN ANDRES POOL IN EDDY COUNTY, NEW MEXICO

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Orders No. R-3311, Melrose Operating Company has made application to the Division on October 16, 2000 for permission to expand its Artesia Unit Waterflood Project in the Artesia Queen-Grayburg-San Andres Pool in Eddy County, New Mexico.

## THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection well(s) are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced Waterflood Project will not cause waste nor impair correlative rights.
  - (6) The application should be approved.

### IT IS THEREFORE ORDERED THAT:

The applicant, Melrose Operating Company be and the same is hereby authorized to inject water into the Queen, Grayburg and San Andres formations at approximately 2,082 feet to approximately 2,467 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described well(s) for purposes of secondary recovery to wit:

### Artesia Unit Well No. 23

API No. 30-015-01746
1980 FSL & 660 FWL, Unit 'L', Section 35
Township 17 South, Range 28 East, NMPM
Injection Interval: 2,082 feet to 2,378 feet (Perforated)
Maximum Injection Pressure: (.2 psi/ft) 416 psig

Artesia Unit Well No. 29
API No. 30-015-01742
990 FSL & 1650 FWL, Unit 'N', Section 35
Township 17 South, Range 28 East, NMPM

Injection Interval: 2,454 feet to 2,467 feet (Perforated)
Maximum Injection Pressure: (.2 psi/ft) 491 psig

Eddy County, New Mexico.

## IT IS FURTHER ORDERED THAT:

Prior to commencing injection operations into the subject well(s), the Artesia Unit Well No. 12, located 1980 feet from the North line and 660 feet from the West line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall cement squeeze the production casing from the top of cement, as determined by a cement bond log, to the surface.

Prior to commencing injection operations into the subject well(s), the Artesia Unit Well No. 13, located 1980 feet from the North line and 1980 feet from the West line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall either provide evidence that the surface casing is adequately cemented so as to effectively isolate and protect fresh water, or cement squeeze the production casing from the top of cement, as determined by a cement bond log, to the surface.

Prior to commencing injection operations into the subject well(s), the Empire Abo Unit G Well No. 38, located 2310 Feet from the South Line and 1650 Feet from the West Line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall either provide evidence that the top of cement in the 5 ½ production casing is above approximately 1700 feet, or the operator shall cement squeeze this well to obtain such results.

The Division's Artesia District Office shall be notified of the date and time that the cement bond logs are to be run. Copies of the logs shall be submitted to the Artesia District Office.

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well(s), the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well(s) or systems shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well(s) to .2 psi per foot of depth to the uppermost injection perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well(s) that such higher pressure will not result in migration of the injected fluid from the Queen, Grayburg and San Andres formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well(s) and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well(s) shall be governed by all provisions of Division Orders No. R-3311 and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well(s), provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 28th day of November, 2000.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

Lori Wrotenbery by MUX

Director

SEAL

LW/MWA/kv

cc: Oil Conservation Division - Artesia

Case File No. 3653 (Order No. R-3311)

### NEW MEXICO OIL CONSERVATION COMMISSION FORM C-103 AUG 2 9 196 (Rev 3-55) MISCELLANEOUS REPORTS ON WELLS (Submit to appropriate District Office as per Commission Rule 1106) [. C. \_\_\_\_\_ ARTESIA, OFFICE Address wame of Company Hondo-Western-Tates Box 129, Artesia, New Mexico Section Township Well No. Unit Letter Lease 28-E State 'A' 39 17-8 Pool County Date Work Performed Empire Abo Eddy THIS IS A REPORT OF: (Check appropriate block) IX Other (Explain): Beginning Drilling Operations Casing Test and Cement Job Remedial Work Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. = AU#38 Ran 757' of 8-5/8% OD 28# used casing, set and cemented with 350 ske. Ran 6378 of 5-1/2" casing as follows: 821' of 5-1/2" OD 17# N-80 2100' of 5-1/2" OD 17# J-55 3457 of 5-1/2" OD 15.5# J-55 Cemented casing with 170 Units of HYS 400 plus 150 sks. 2% gel Incore. 8-23-61 Ran 6170' of 2" EUE 4.70# J-55 smls. tubing. Packer set at 6170 Perforations: 6297 - 6308 2/ft. Treated formation thru perforations with 1000 gallons 15% regular acid with D8-50 added. Position Witnessed by Company A. J. Deans Hondo Oil & Gas Company Dist. Prod. Supt. FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA DF Elev. TD PBTD Producing Interval Completion Date **Tubing Diameter** Tubing Depth Oil String Diameter Oil String Depth Perforated Interval(s) Open Hole Interval Producing Formation(s) RESULTS OF WORKOVER Oil Production Water Production Gas Well Potential Date of Gas Production GOR Test BPD MCFPD BPD Cubic feet/Bbl Test MCFPD Before Workover After

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

8-24-61

Name

A. J. Akaus by Amtalymous

Title OIL AND GAS INSPECTOR

Position

Dist. Prod. Supt.

Date 2116 3 0 1961

Workover

Company
Hondo Oil & Cas Company

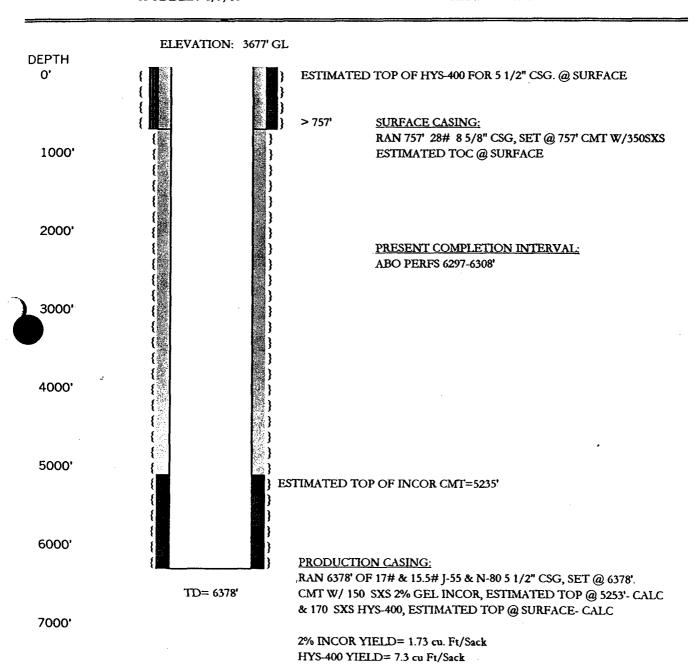
# (BP AMOCO) ARCO PERMIAN OPERATING CURRENT CONFIGURATION

WELL: EMPIRE ABO UNIT G-38

FIELD: EMPIRE ABO INTERVAL: ABO COMP: 8/21/61 IP: 130 BOPD SPUDDED: 8/9/61 LOCATION:

2310' FSL & 1650' FWL SEC 35, T-17-S, R-28-E EDDY COUNTY, NM

API #: 30-015-01739



+Submit 3 Copies to Appropriate

Form C 103

State of New Mexico
Energy, Minerals and Natural Resources Department

District Office	Elicigy, Milicials and IN	aturai Nes	outees Departme	ııı		Kevised 1-	1-89
DISTRICT I DO. Box 1980, Hobbs, NM S8240		Box 2088	}	WEI	L API NO. 30 015 017	46/015 0174	42
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DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410				6. S	tate Oil& Gas Lease N	<u> </u>	
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1. Type of Well: Oil Gas Well Well	OTHER I	njection w	ell X		Artesia	Unit	
2. Name of Operator Melrose Oper	rating Company			8. V	Vell No.	29	
3. Address of Operator c/o P.O. Box 953, Midland, TX	79702 9l5 684-638l				ool name or Wildcat tesia, Queen-Graybur	g-San Andres	s (03230)
4. Well Location  Unit LetterL1980	Feet From The	South	Line and	660	Feet From The	West (23)	Line
Section 35	Township 17S	Rang		NMPM	ı Eddy		County
///////////////////////////////////////	10. Elevation (Sho	w whether Di	F, RKB. RT, GR, etc.,		///////////////////////////////////////	7//////////////////////////////////////	//
11. Check A	Appropriate Box to In	dicate N	ature of Notice	, Repor	t, or Other Data		
NOTICE OF INT	ENTION TO:		S	UBSEC	UENT REPOR	T OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	<b>v</b>	REMEDIAL WORK		ALTERII	NG CASING	
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12. Describe Proposed or Completed Opwork) SEE RULE 1103.	erations (Clearly state all pertin	ent details, a	nd give pertinent date	s, including e	estimated date of starting	any proposed	

As per administrative Order NO. WFX-768, review of the data reveals that sufficient cement was utilized to bring cement to a calculated height @ surface using 25% excess. Wellbore diagram attached.

(M)	~	•
I hereby certify that the information above is true and complete to the vest of my kn		
SIGNATURE WILL WALKER	Regulatory Agent	DATE8-29-01
TYPE OR PRINT NAME Ann E. Ritchie		TELEPHONE NO. 915 684-6381
space for State Use)		
APPROVED BY	TITLE	DATE
CONITIONS OF APPROVAL, IF ANY:		

+Submit 3 Copies
to Appropriate
District Office

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

District Office OIL CONSERVATION DIVISION DISTRICT I WELL API NO. Box 1980, Hobbs, NM S8240 P.O. Box 2088 30 015 01745 OS TRICT II Santa Fe, New Mexico 87504-2088 5. Indicate Type of Lease P.O. Drawer DD, Artesia, NM 88210 FEF DISTRICT III 6. State Oil& Gas Lease No. 1000 Rio Brazos Rd., Aztec, NM 87410 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name ( DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well IX Well OTHER Injection well Artesia Unit 2. Name of Operator 8. Well No. Melrose Operating Company 12 3. Address of Operator 9. Pool name or Wildcat c/o P.O. Box 953, Midland, TX 79702 Artesia, Q-G-SA (03230) 4. Well Location 1980' North 660 Feet From The Line and Feet From The Section Township 35 Range Eddy 28E **NMPM** County 10. Elevation (Show whether DF, RKB. RT, GR. etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PLUG AND ABANDON RM REMEDIAL WORK REMEDIAL WORK **ALTERING CASING CHANGE PLANS** TEMPORARILY ABANDON COMMENCE DRILLING OPNS. PLUG AND ABANDONMEN **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB OTHERAS per Administrative Order #WEX 768 OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. 4-17-01: Rigged up BJ Services, pumped 20 bbls gel w/loss circulation material, 200 gals .RBP @ 2059 Pumped 200 sx Cl C cement w/3% CaCl @ 15.4#/gal. Displaced with 2 1/2 bbls water. Rigged down BJ, ran in hole w/drill collars & bit, cleaned hole to 170'. SION. 4-18-01: Ran cement bond log - cement @ surface. 4-19-01: TOH w/RBP. Went in and tagged @ 2259', clean out, TIH w/bailer clean to 2310' PBTD. 4-20-01: TIH with packer set at 2112'. Loaded backside, Load tubing, SION. 4-21-01: Acidized well w/3000 gals 15% HCL. Swabbed, SION. 4-23-01: Ran tubing in hole. Shut-in well. Cleaned location. Regulatory Agent 7-2-01

(this space for State Use)

APPROVED BY ....

CONITIONS OF APPROVAL. IF ANY:

PRINT NAME Ann E. Ritchie



# **CEMENT JOB REPORT**

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TIME HR:MIN 09:30 09:40 10:15	ATIO	PRESSL PIPE 150 150 50	BLE SE	TYPE	TOOL, RU ESSURE/R RATE BPM  2 2 2 0 2	NNING CSG  ATE DETAIL  Bbl. FLUID  PUMPED  5  70  0  48	FLUID TYPE  GEL CMT	SAPERIOR TO SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR SEPERIOR	CEMENT  CETY MEET  T LINES  ICULATING  Gel/Ceda  Gel/Ceda  Lop oul	SH RADOOD FING: SHIG: BJ C 20 SWELL - F OF FIber of The Fiber of The Fiber of	REW DBO P DBC G 30	Operato  X CO SI BJ	REP.	2900 EXPL	Operator 1000	WATER SOURCE
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+Submit 3 Copies to Appropriate District Office

CONTIONS OF APPROVAL, IF ANY

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

	OIL COMPERMANTE	INTERPRETATION		<u> </u>	
DISTRICT I P.O. Box 1980, Hobbs, NM S8240	OIL CONSERVATION P.O. Box 20		WELL API NO.		
STRICTIL	Santa Fe, New Mexico			30 015 01754	
O. Drawer DD, Artesia, NM 88210		2000	5. Indicate Type of		
DISTRICT HI		11819202122	<u></u>	STATE	FEE _
1000 Rio Brazos Rd., Aztec, NM 87410		87504-2088 5671 1819202722	Colate Oile Gas	Lease No.	
SUNDRY NOT ( DO NOT USE THIS FORM FOR PR DIFFERENT RESE (FORM C	ICES AND REPORTS ON WE OPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PE :-101) FOR SUCH PROPOSALS.)		7. Leise Name or U	nit Agreement N	ame
1. Type of Well: Oit X Gas Well X Well	ome laice	41988		Artesia Unit	
2. Name of Operator Melrose Onerating	<b>V</b>	123456	8. Well No.	13	
3. Address of Operator P.O. Box 953, Mid1			9. Pool name or W		1230)
4. Well Location	<u> </u>		nites:	<u>., Q-O-SA (03</u>	1230)
Unit Letter F 1980	O' Feet From The North	Line and 198	80' Feet From	The W	est Line
Section 35			NMPM	Eddy	County
\ <i>!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!</i>	10. Elevation (Show whether	DF, RKB. RT, GR, etc.) 3668	//////////	///////////////////////////////////////	//////
II. Check	Appropriate Box to Indicate	Nature of Notice, R	eport, or Other	Data	
NOTICE OF IN			SEQUENT RI		•
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CAS	ING [
PORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS.	PLUG AND ABA	UNDONMENT
PULL OR ALTER CASING		CASING TEST AND CE	MENT JOB		
OTHER:		OTHERAS per Admin	istrative Order #\	VEX 768	[
12. Describe Proposed or Completed O	perations (Clearly state all pertinent details	s, and give pertinent dates, incl	luding estimated date o	f starting any prop	osed
work) SEE RULE 1103. 4-30-01: MIRU - shot perf @ 1800'	- cement ton @ 1830' as ner cemes	: ot bond log - ran Compu	rta log	•	
5-1-01: Cleaned out hole, changed of		it boud log - ran Compt	ita iog.		
5-2-01: Rigged up BJ Services, ran		1745', loaded backside	w/500 psi. Moved	packer to 147	75' - mixed 200
sx 12.4# per/gal 1.98 cu. ft./sk tailed	with 100 sx Cl C 2% CaCl wash	ed to pit. Displaced tub	ing and casing to	1650'. Ordered	l out bond log.
5-4-01: Ran bond log, holding press	ure on casing. Top of cement @ 1	380', shot new squeeze	holes @ 510'. Ca	ll for cement.	
5-5-01: BJ Services (pumped 200 s			ace to 100' above	squeeze hole.	-
5-7-01: Started drilling cement @ 3 5-8-01: Ran CBL - showed good bo			car & numand day	em tubio <i>n usla</i>	warra unit
5-9-01: Rigged up BJ, set packer @					
pumped 400 sx circulating, mixed 2					,
5-10-01: Began drilling out cement.		2 - C	•		
5-11-01: Drilled out cement to 2311		0'.		,	
5-14-01: Nipple down BOP - hang t 5-15-01: Ran in hole with tubing an		•	<b>~</b>		. <b>~</b>
I hereby certify that the information above is try	and complete to the rest of my knowledge and	belief.	<del></del>		
SIGNATURE	1000	Regulatory Agent		DATE	7-2-01
DODE OR PRINT NAME ANN E. Ritchie				•	. 915 684-6381
runs space for State Use)					
APPROVED BY TIME SLOPPLE OD		Envil. En. Spec	I	DATE 7/25	12001.



# CEMENT JOB REPORT

LEASE & WELL NAME LOCATION Sec. 15 - T175 - R26E DISTRICT DRILLING CONTRACTOR RIG # Arcals Besic Energy PU Squeeze-Block LIST-CSG-HARDWARE PHYSICAL SLURRY PROPERTIES	
DISTRICT DRILLING CONTRACTOR RIG# TYPE OF JOB Arcala Basic Engry PU Squeeze Block	
Artests Besic Energy PU Squeeze-Block	
- SZES TIPE OF PEOOS LIST-COCHARDWARE PHYSICAL SCURRY PROPERTIES	
No Shoe BLURRY SLURRY WATER PUMP BE	<b>         </b>
WGT YLD GPS TIME SLUI	
MATERIALS FURNISHED BY BU	WAIER
600su05:85:8(P:C:G) 12.6 1.99 10.71	212 152.53
200sr CT+2% CaCl 14.8 1.34 8.34	48 30.36
Water 8.34	
	]
Available Mix Welct 260 Bbl. Available Displ. Fluid 100 Bbl. TOTAL	260 162.69
HOLE TEG-CSG-D.P. COLLAR DEPT	
SUTE   1 EXCESS   DEPTH   BUTS   WOY.   TYPE   DEPTH   BRADE   BHOS   PLOAT     0   0   0   2.375   4.7   TBG   60   N-80   0	D D
	-
	WELL FLUID
SEE 140 TYPE PEPTH BRAND TYPE DEPTH TOP DIM SEE THREAD TO S.S. 14 C6G Retrievable packer 60 0 0 2.375 8 RO BRINI	P.EWat
DISPL VOLUME PIGPL FLUID CAL PSI CAL MAX PSI OF MAX TRO PSI MAX TRO	· .
	WATER
1 1.5 BBL6 Water 8.34 0 0 0 11200 8960 0	O Transport
	O Haispan
EXPLANATION; TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:	
PRESSURE/RATE DETAIL EXPLANATION	
TIME   PRESSURE-PSI   RATE   BULFLUID   FLUID   SAFETY MEETING; BLI CREW   X   CO. REP.	
HR:MIN. PIPE ANNULUE BPM PUMPED TYPE TEST LINES 2000 PEI	
GIRCULATING WELL-RIG X BJ	
08:15	<del>,</del>
08:35 2000 0 1 1 FW Test lines	
: 08:58 80 0 4 30 FAV Break circulation : 09:05 120 0 4 40 12.6# CMT Cement	
: 09:15 100 0 2 80 12:54 CMT Coment	
10:18	
1 10:25 100 0 3 45 14.6# CMT   Tail cement	
10:45 100 0 3 1.5 FW Displace	
Circulated 125 Sics / 44 BBis to pil Thanks, Keith and Crawtil	
	···.
PSI TO TEST BULCIAT TOTAL PSI SPOT	
SUMPED BUMP FLOAT RETURNS BOL LEFTON TOP OUT SERV. BUPV.	I
PLUG PLUG EQUIP. REVERSED PLIMPED CSC CEMENT  Y N 44 295 D Y N 1	
Prie652 (12796) Page 1	<b>16004</b>

### +Submit 3 Copies to Appropriate District Office

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

DISTRICT I Box 1980, Hobbs, NM S8240

CONITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

KC413CG 1-1-

Bax 1980, Hobbs, NM S8240	P.O. Box 20		30	015 01746
P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of L	.ease 🖂 🖂
DISTRICT III				STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil& Gas Le	ease No.
( DO NOT USE THIS FORM FOR PE DIFFERENT RES	TICES AND REPORTS ON WE ROPOSALS TO DRILL OR TO DEEPEN ERVOIR. USE "APPLICATION FOR PE C-101) FOR SUCH PROPOSALS.)	NOR PLUG BACK TO A	7. Lease Name or Uni	t Agreement Name
I. Type of Well: Oil Gas Wett Wett	onier Injection	well Y	1	rtesia Unit
2. Name of Operator		WCII X	8. Well No.	itesia Onit
· · · · · · · · · · · · · · · · · · ·	erating Company			23
3. Address of Operator c/o P.O. Box 953, Midland, TX	X 79702 9l5 684-638l		9. Pool name or Wild	leat ayburg-San Andres (03230)
4. Well Location			Turchia, Queen Gi	ayoung builtinates (03230)
Unit Letter L 198	South South	Line and 66	Feet From T	ne West Line
Section 35	Township 17S R	ange 28E i	NMPM	Eddy County
	10. Elevation (Show whether	DF, RKB. RT, GR, etc.)	////////////	///////////////////////////////////////
11. Check	Appropriate Box to Indicate	Nature of Notice, Re	eport, or Other D	Pata -
NOTICE OF IN			SEQUENT RE	
ORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	AL	TERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. PL	UG AND ABANDONMENT
PULL OR ALTER CASING		CASING TEST AND CEN	IENT JOB	
OTHER:		OTHER MIT	·	<b>X</b>
	perations (Clearly state all pertinent details	s, and give pertinent dates, incle	uding estimated date of s	tarting any proposed
work) SEE RULE 1103. 7-20-01: Ran mechanical integrity	test - pressured up to 300 psi, held	l for 30 minutes. Test w	ritnessed by Gerry (	ary with the Oil
Conservation Division. Chart give		10.00	14100004 07 00117 (	ouj waar allo on
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		*		•
•				-
			•	• ••
				. <b>~</b>
·				
I have been accepted at a large trade or action at a fact in the	we and somplete to the Best of my knowledge and	Lattac		
A nerectly certify that the information above is a	he and domptone bette best of my knowledge and	Regulatory Agent		7-26-01
SIGNATURE	TIT TIT	TE TOBUTOTA LEBOTT		. DATE
R PRINT NAME Ann E. Ritchie	<u></u>			TELEPHONE NO. 915 684-6381
(this space for State Use)		•		
APPROVED BY	тит	LE		DATE
	***			

+Submit 3 Copies to Appropriate District Office

APPROVED BY \_\_\_

CONITIONS OF APPROVAL, IF ANY:

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C 103 Revised 1-1-89

-- DATE ---

District Office	OIL COMBENIAN			
DISTRICT I Box 1980, Hobbs, NM S8240	OIL CONSERVATI		WELL API NO.	
FRICT II	P.O. Box 2 Santa Fe, New Mexic		30 015 017	742
P.O. Drawer DD, Artesia, NM 88210	,		5. Indicate Type of Lease	E⊠ FEE □
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil& Gas Lease No.	
( DO NOT USE THIS FORM FOR PRO DIFFERENT RESER (FORM C-	CES AND REPORTS ON W PPOSALS TO DRILL OR TO DEEP RVOIR. USE "APPLICATION FOR F 101) FOR SUCH PROPOSALS.)	EN OR PLUG BACK TO A	7. Lease Name or Unit Agreeme	ent Name
1. Type of Well: Oil Gas Well Well	other Injection	on well Y	Artesia U	nit
2. Name of Operator		ni well -X	8. Well No.	
Melrose Operator  3. Address of Operator	ating Company		9. Pool name or Wildcat	
c/o P.O. Box 953, Midland, TX	79702 915 684-6381		Artesia, Queen-Grayburg-S	an Andres (03230)
4. Well Location	S			
Unit Letter N 990	Feet From The South	Line and 16	50 Feet From The	West Line
Section 35	Township 17S	Range 28E	NMPM Eddy	County
///////////////////////////////////////	10. Elevation (Show wheth	her DF, RKB. RT, GR, etc.)	///////////////////////////////////////	////////
II. Check A	Appropriate Box to Indicat	e Nature of Notice, R	eport, or Other Data	
NOTICE OF INT	ENTION TO:	SUB	SEQUENT REPORT	OF:
PEORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING	CASING
ORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	OPNS. PLUG AND	ABANDONMENT
PULL OR ALTER CASING	_	CASING TEST AND CE		
OTHER:		OTHER MIT		×
12. Describe Proposed or Completed Op	erations (Clearly state all pertinent det	ails, and give pertinent dates, inc	luding estimated date of starting any	proposed
work)SEE RULE 1103.		•		
8-8-01: As per Administrative Order Well #29. The well was pressure tes Division.				
				-
•				
2 1				
I hereby certify that the information above is true	and complete to the best of my knowledge a	nd belief.		
SIGNATURE MINE VILLE	hope	Regulatory Agent	DATE	7-26-01
OR PRINT NAME Ann E. Ritchie	. •		TELEPHOI	HE NO. 915 684-6381
(this space for State Use)				
· ·				

\_ TITLE -

Energy, Minerals and Natural Re	esources Department	Form C 103 Revised 1-1-89	•
P.O. Box 208	88 87504-2088	WELL API NO.  30 015 01746/015 01742  5. Indicate Type of Lease  STATE  FEE  6. State Oil& Gas Lease No.	
POSALS TO DRILL OR TO DEEPEN POIR. USE "APPLICATION FOR PER	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name	
отнек Injection v	well X	Artesia Unit	
ting Company		8. Well No. 23 & 29	
9702 915 684-6381  Feet From The South		9. Pool name or Wildcat Artesia, Queen-Grayburg-San Andres (03230)  Feet From The West (23) Lin	·
·		port, or Other Data	
PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORK COMMENCE DRILLING O	ALTERING CASING  PLUG AND ABANDONMENT	
	CASING TEST AND CEME		×
	P.O. Box 208 Santa Fe, New Mexico  CES AND REPORTS ON WEL POSALS TO DRILL OR TO DEEPEN POIR. USE "APPLICATION FOR PER 101) FOR SUCH PROPOSALS.)  OTHER Injection  Atting Company  P9702 915 684-6381  Feet From The South  Township 17S Ra  10. Elevation (Show whether  Ppropriate Box to Indicate 1  ENTION TO:  PLUG AND ABANDON	P.O. Box 2088 Santa Fe, New Mexico 87504-2088  CES AND REPORTS ON WELLS POSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A POIR. USE "APPLICATION FOR PERMIT" 01) FOR SUCH PROPOSALS.)  OTHER Injection well X  Integration Company  POTO2 915 684-6381  Feet From The South Line and 660  Township 17S Range 28E NI  10. Elevation (Show whether DF, RKB, RT, GR, etc.)  POPPOPRIATE BOX to Indicate Nature of Notice, Resent Company  POTO2 915 684-6381  REMEDIAL WORK CHANGE PLANS COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRILLING COMMENCE DRIL	P.O. Box 2088 Santa Fe, New Mexico 87504-2088    Santa Fe, New Mexico 87504-2088   30 015 01746/015 01742

As per administrative Order NO. WFX-768, review of the data reveals that sufficient cement was utilized to bring cement to a calculated height @ surface using 25% excess. Wellbore diagram attached.

I hereby certify that the information about is true and complain of the	Jack and the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state	
SIGNATURE	TITLE Regulatory Agent	DATE 8-29-01
or print name Ann E. Ritchie		TELEPHONE NO. 915 684-6381
(this space for State Use)		
APPROVED BY	TITLE	DATE

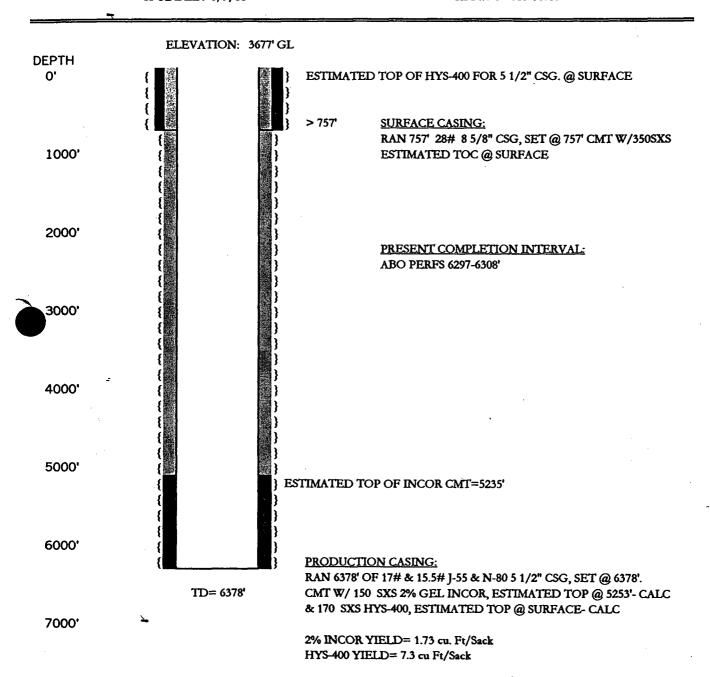
# ARCO PERMIAN OPERATING CURRENT CONFIGURATION

WELL: EMPIRE ABO UNIT G-38

FIELD: EMPIRE ABO INTERVAL: ABO COMP: 8/21/61 IP: 130 BOPD SPUDDED: 8/9/61 LOCATION:

2310' FSL & 1650' FWL SEC 35, T-17-S, R-28-E EDDY COUNTY, NM

API #: 30-015-01739



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		(S	ubmit to approp	oriate Dist	trict Offic	e as pe	er Comi	nission Ru	/e 1106) [	J. C.	C. DIFFICE
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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER NO. WFX-768

APPLICATION OF MELROSE OPERATING COMPANY TO EXPAND ITS WATERFLOOD PROJECT IN THE ARTESIA QUEEN-GRAYBURG-SAN ANDRES POOL IN EDDY COUNTY, NEW MEXICO

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Orders No. R-3311, Melrose Operating Company has made application to the Division on October 16, 2000 for permission to expand its Artesia Unit Waterflood Project in the Artesia Queen-Grayburg-San Andres Pool in Eddy County, New Mexico.

# THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection well(s) are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced Waterflood Project will not cause waste nor impair correlative rights.
  - (6) The application should be approved.

### IT IS THEREFORE ORDERED THAT:

The applicant, Melrose Operating Company be and the same is hereby authorized to inject water into the Queen, Grayburg and San Andres formations at approximately 2,082 feet to approximately 2,467 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described well(s) for purposes of secondary recovery to wit:

## Artesia Unit Well No. 23

API No. 30-015-01746 1980 FSL & 660 FWL, Unit 'L', Section 35 Township 17 South, Range 28 East, NMPM Injection Interval: 2,082 feet to 2,378 feet (Perforated) Maximum Injection Pressure: (.2 psi/ft) 416 psig

Artesia Unit Well No. 29

API No. 30-015-01742 990 FSL & 1650 FWL, Unit 'N', Section 35 Township 17 South, Range 28 East, NMPM Injection Interval: 2,454 feet to 2,467 feet (Perforated) Maximum Injection Pressure: (.2 psi/ft) 491 psig

Eddy County, New Mexico.

## IT IS FURTHER ORDERED THAT:

Prior to commencing injection operations into the subject well(s), the Artesia Unit Well No. 12, located 1980 feet from the North line and 660 feet from the West line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall cement squeeze the production casing from the top of cement, as determined by a cement bond log, to the surface.

Prior to commencing injection operations into the subject well(s), the Artesia Unit Well No. 13, located 1980 feet from the North line and 1980 feet from the West line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall either provide evidence that the surface casing is adequately cemented so as to effectively isolate and protect fresh water, or cement squeeze the production casing from the top of cement, as determined by a cement bond log, to the surface.

Prior to commencing injection operations into the subject well(s), the Empire Abo Unit G Well No. 38, located 2310 Feet from the South Line and 1650 Feet from the West Line of Section 35, Township 17 South, Range 28 East, NMPM, the operator shall either provide evidence that the top of cement in the 5 ½ production casing is above approximately 1700 feet, or the operator shall cement squeeze this well to obtain such results.

The Division's Artesia District Office shall be notified of the date and time that the cement bond logs are to be run. Copies of the logs shall be submitted to the Artesia District Office.

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well(s), the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well(s) or systems shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well(s) to .2 psi per foot of depth to the uppermost injection perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well(s) that such higher pressure will not result in migration of the injected fluid from the Queen, Grayburg and San Andres formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well(s) and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well(s) shall be governed by all provisions of Division Orders No. R-3311 and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well(s), provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Administrative Order WFX-768 Melrose Operating Company November 28, 2000 Page 4

DONE at Santa Fe, New Mexico, on this 28th day of November, 2000.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

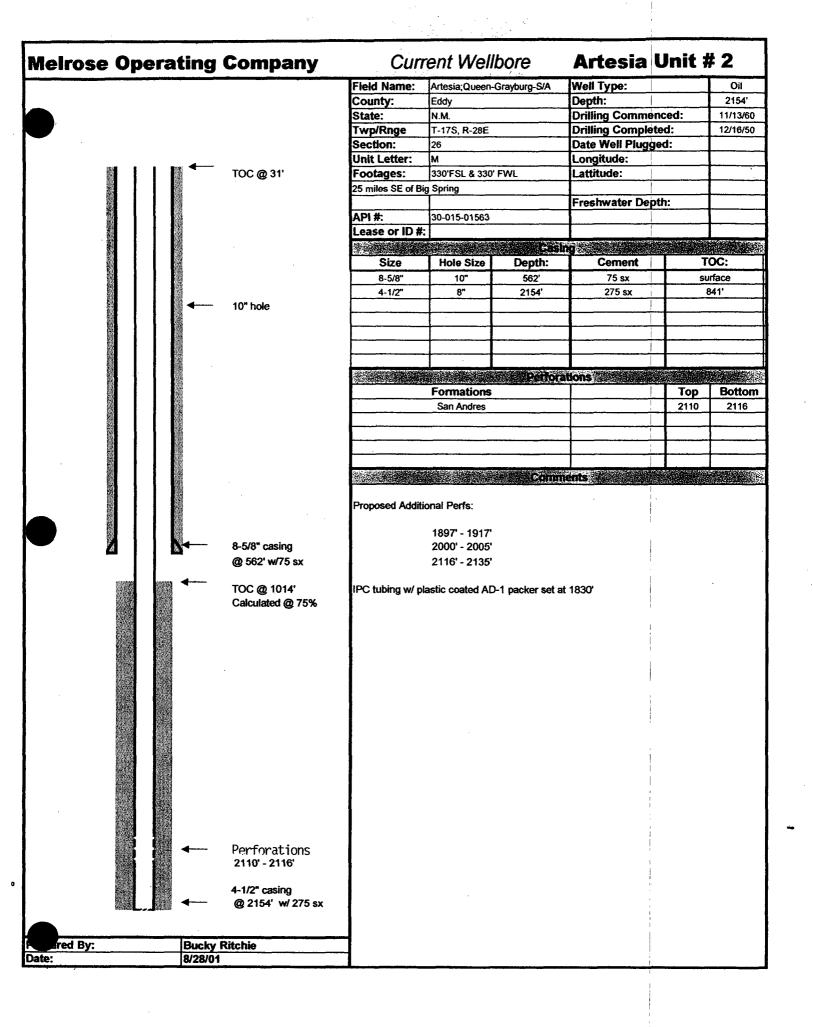
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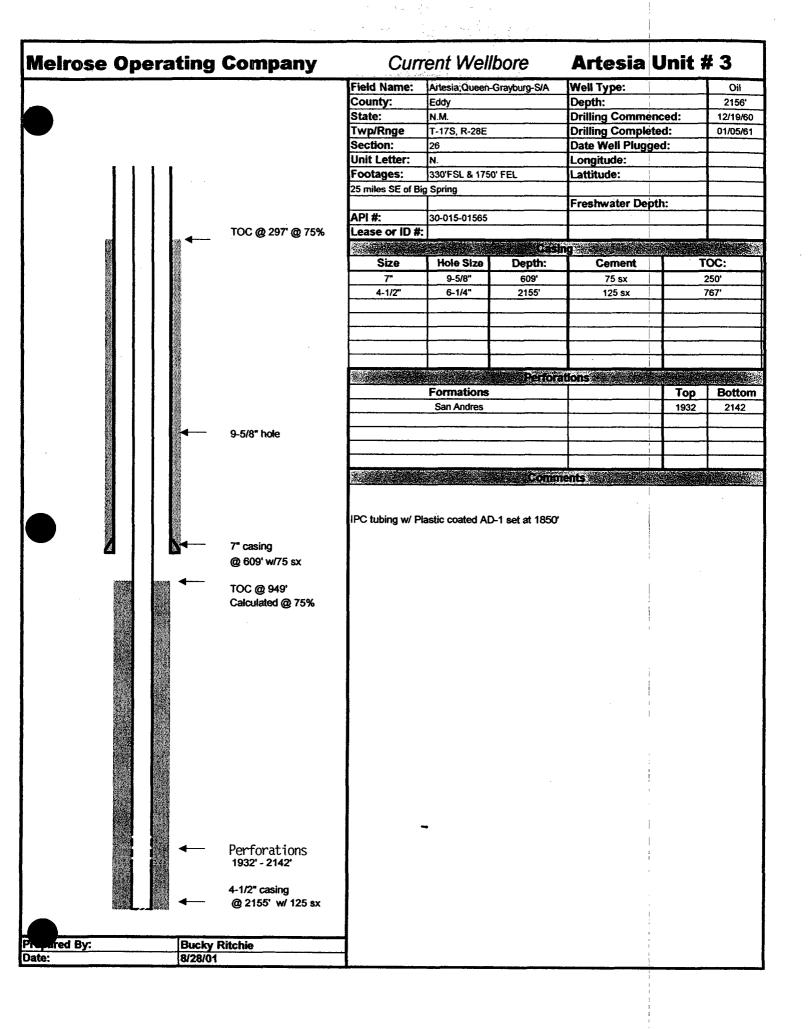
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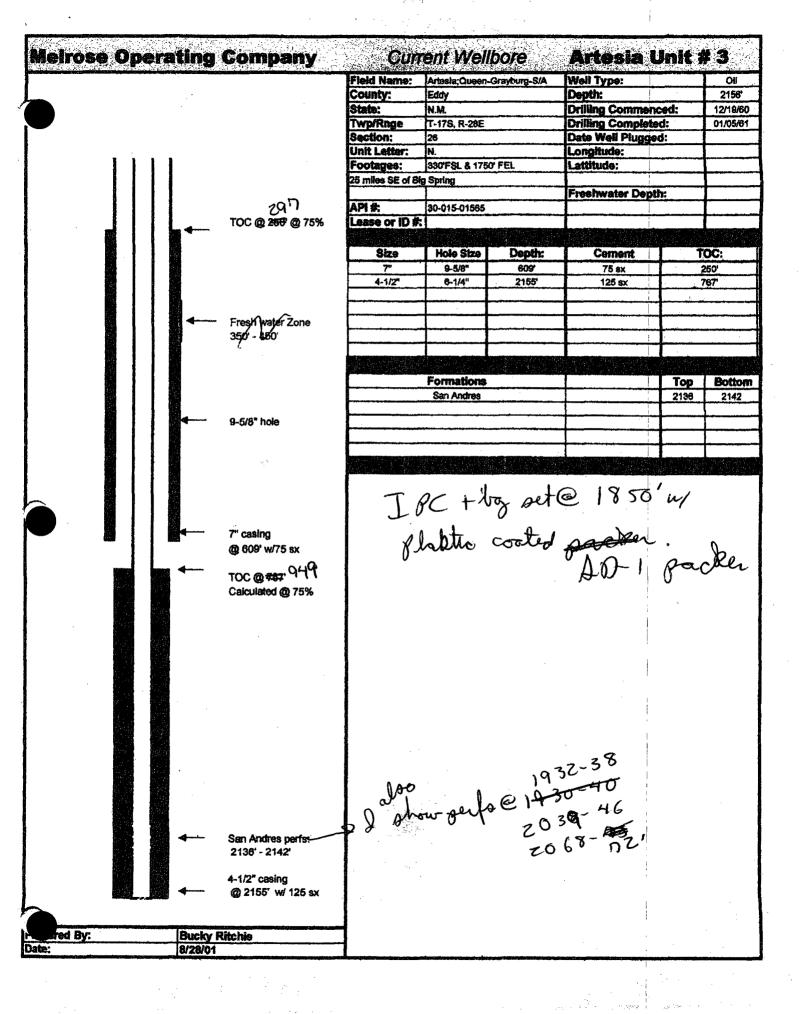
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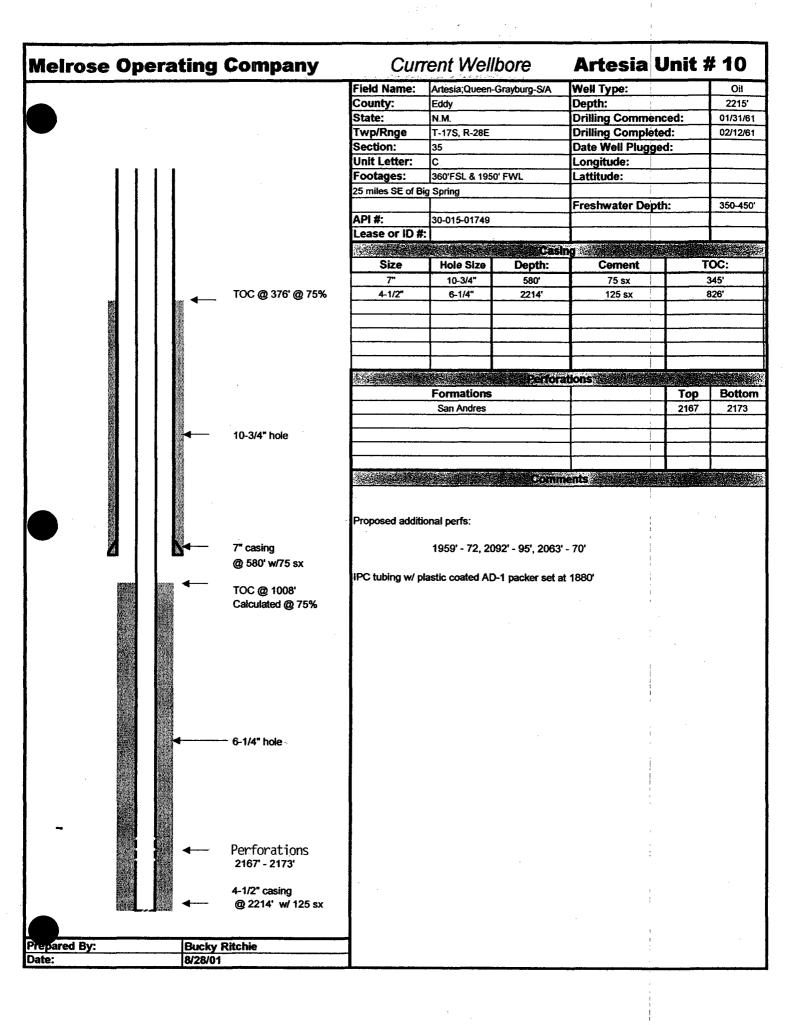
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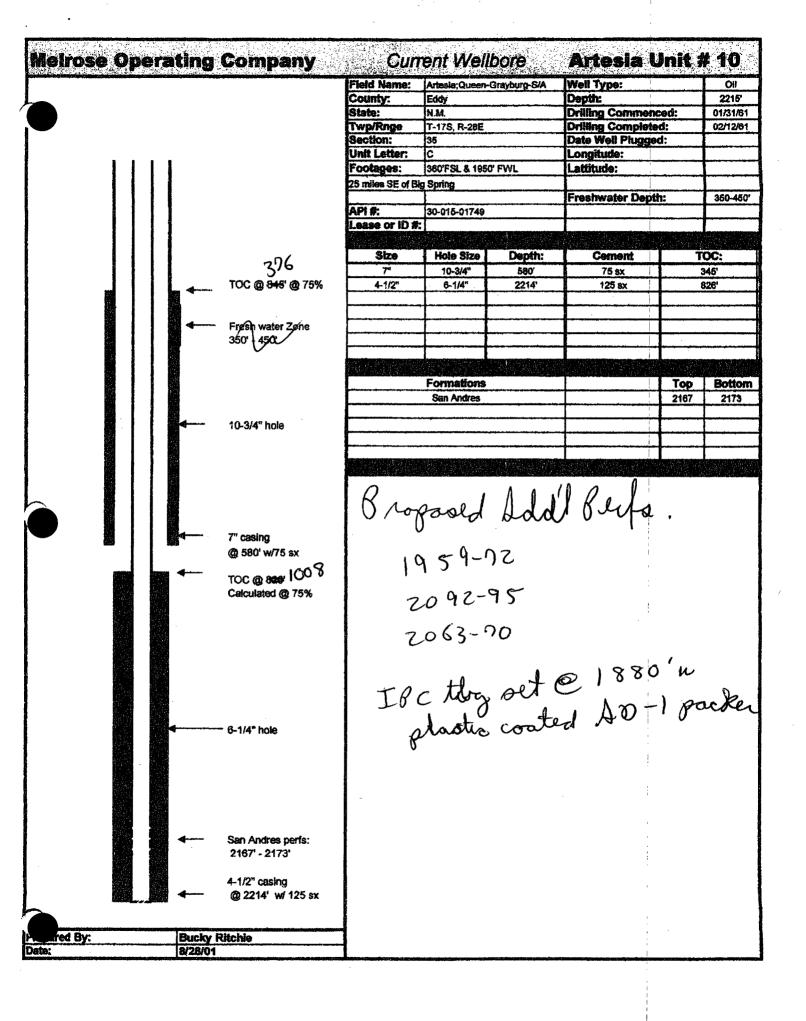
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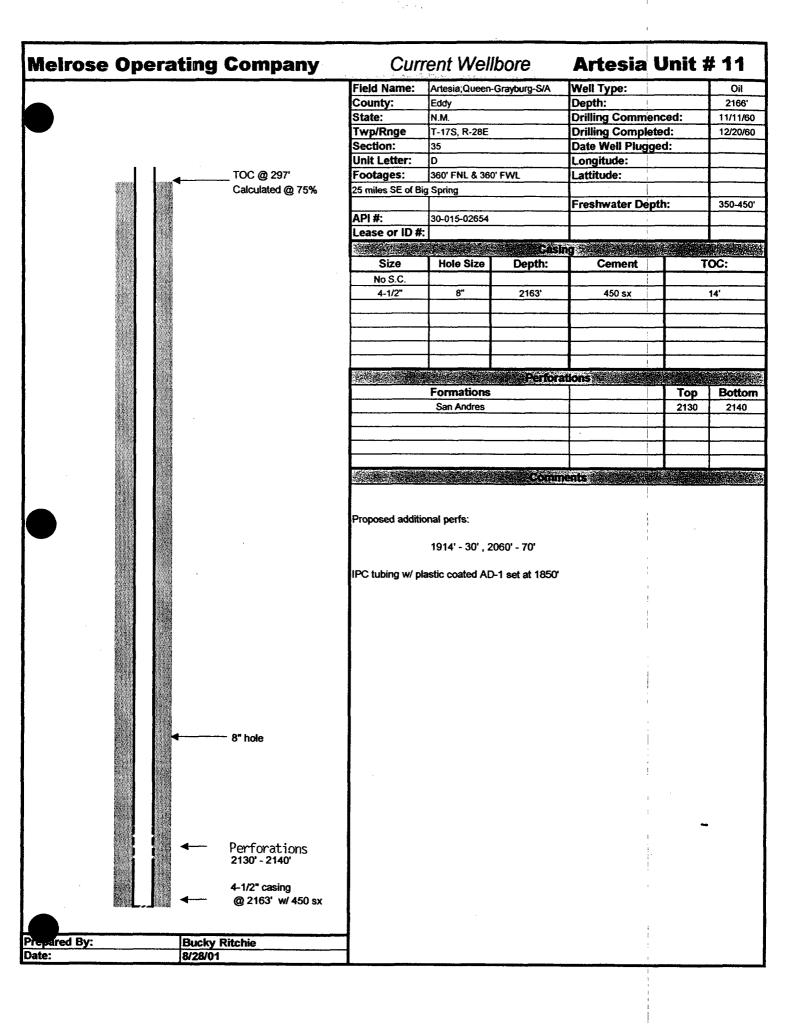


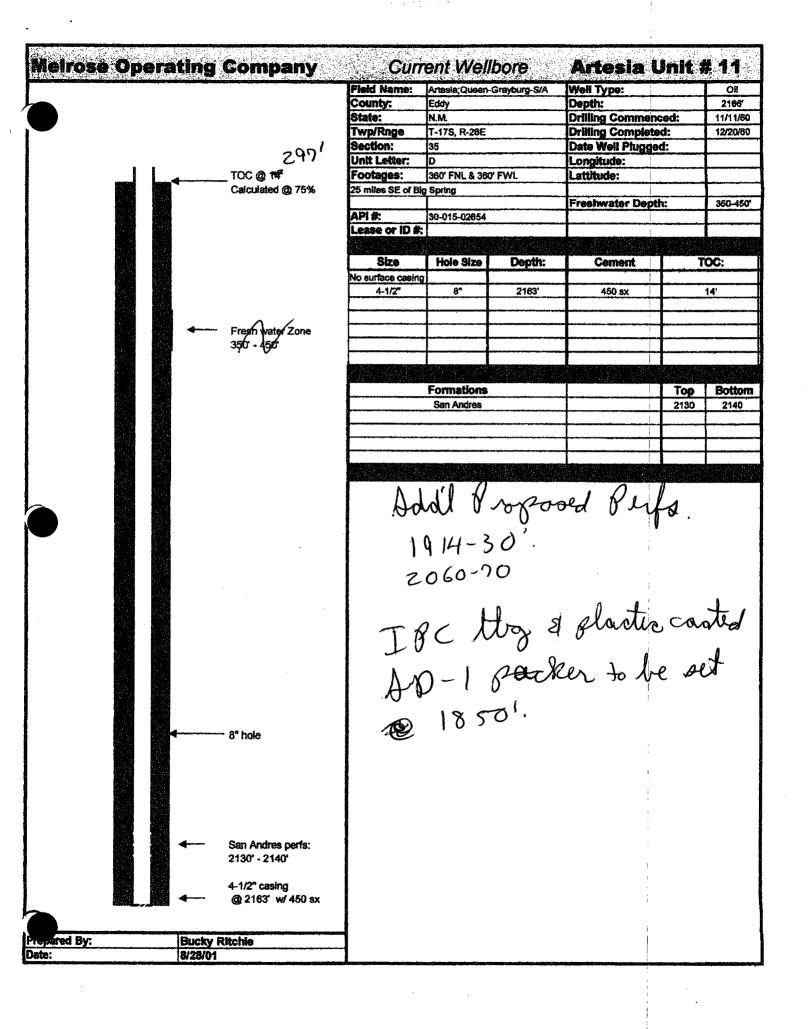




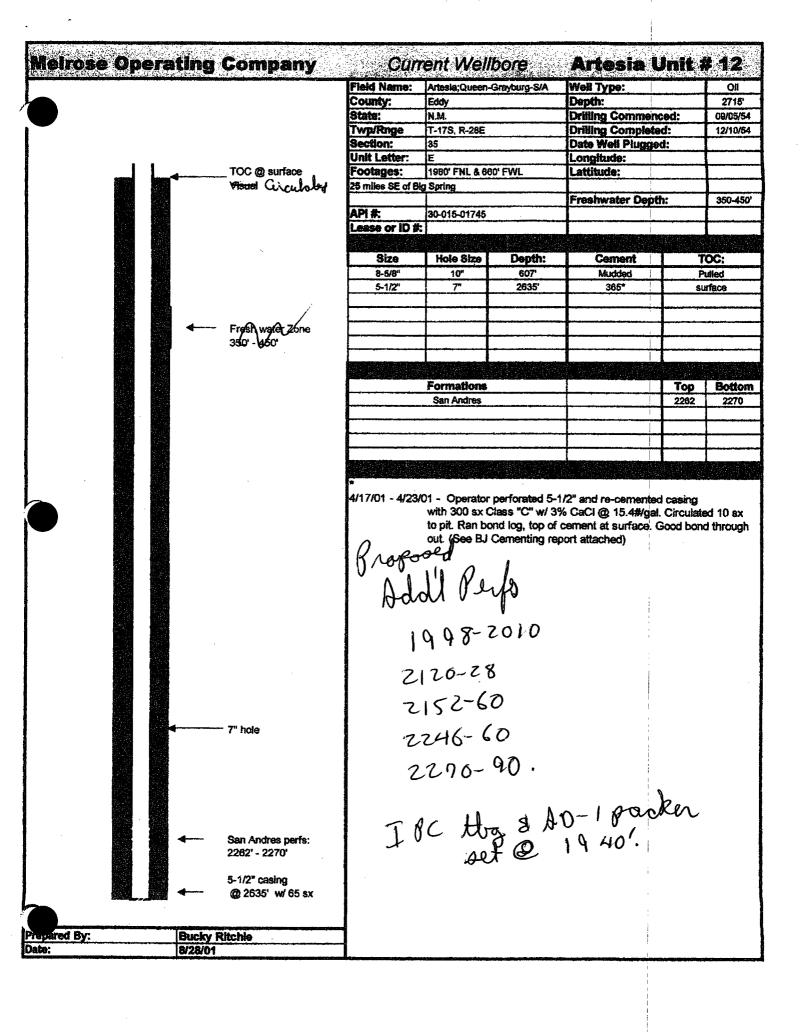






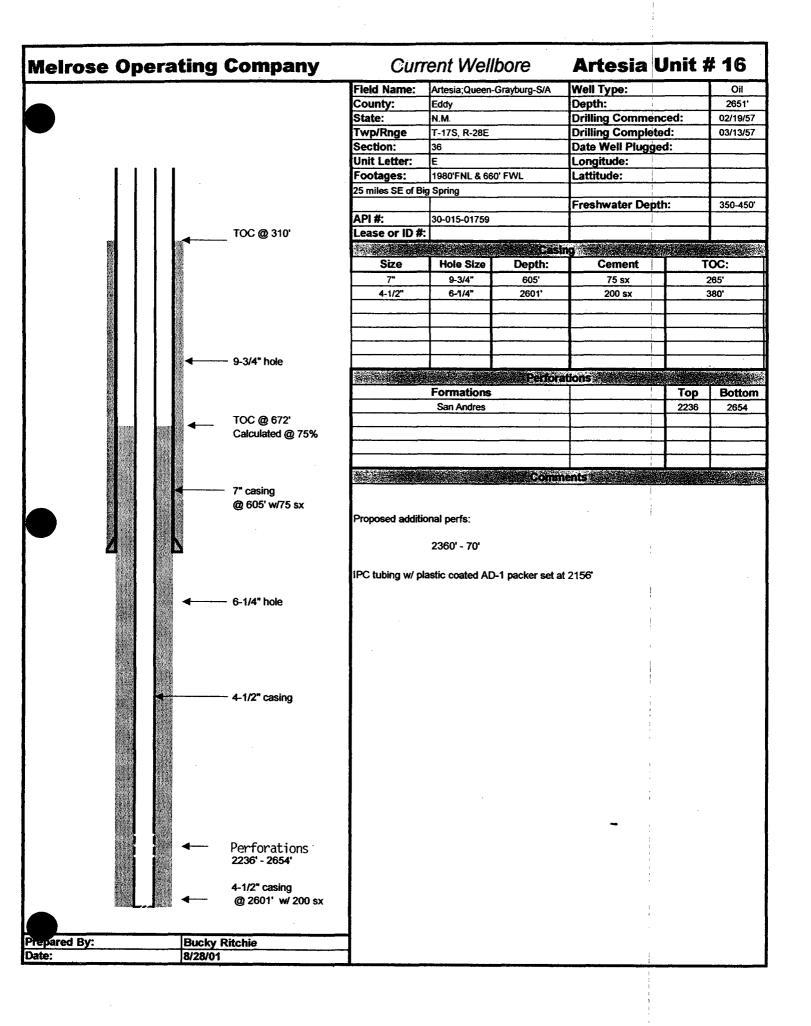


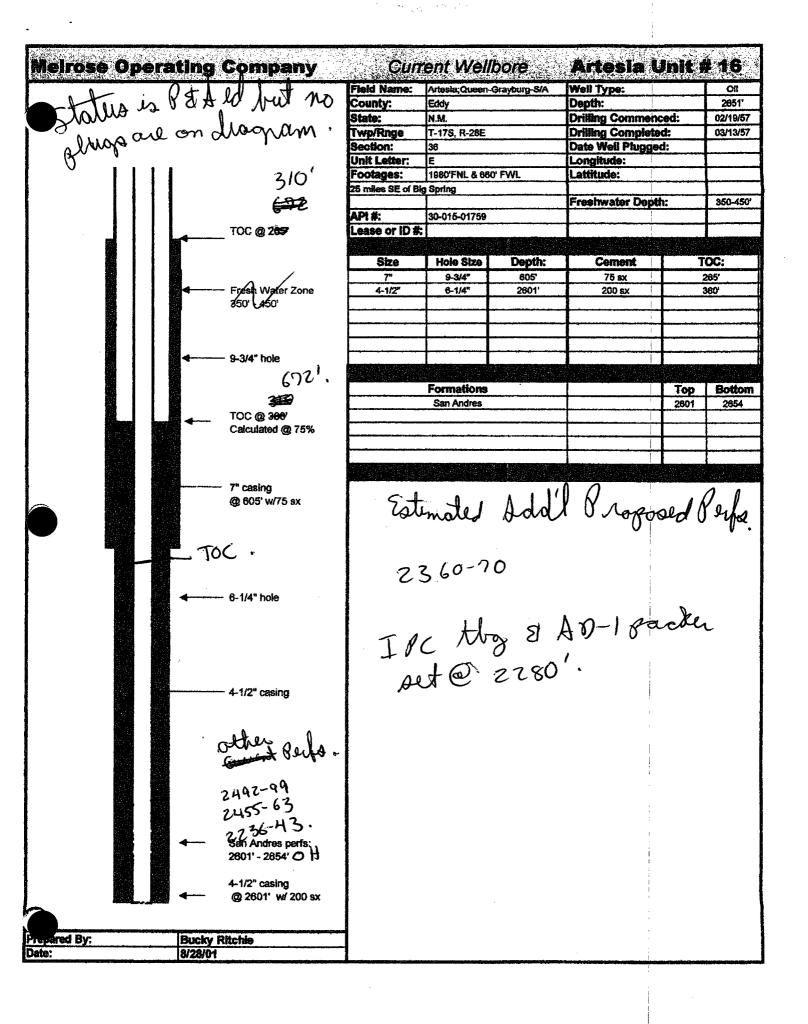
	O POTO	ting Company	Cur	rent Well	DOTE	Artesia	Unit	# 12
			Field Name:	Artesia;Queen-	Grayburg-S/A	Well Type:		Oil
			County:	Eddy		Depth:		2715'
			State:	N.M.		Drilling Comm	enced:	09/05/54
			Twp/Rnge	T-17S, R-28E		Drilling Comp		12/10/54
			Section:	35		Date Well Plug		<del></del>
			Unit Letter:	E		Longitude:	79	<del> </del>
		TOO & audion			or SIAN		<del> </del>	<del> </del>
		TOC @ surface	Footages:	1980' FNL & 66	O. PAAF	Lattitude:		<b></b>
		Circulated	25 miles SE of B	lig Spring			<del> </del>	<b></b>
						Freshwater De	epth:	350-450'
			API#:	30-015-01745			l	.l
			Lease or ID #	E			1	
					e is	na seria		
			Size	Hole Size		Cement	1	roc:
					Depth:			
1			8-5/8"	10"	607'	Mudded		Pulled
			5-1/2"	7"	2635'	365*	s	urface
				<u> </u>			J.,	
							1	
				1	· · · · · · · · · · · · · · · · · · ·		1	
				<del>                                     </del>		†···	<del>                                     </del>	
								Marie Constant
			7/24/09/2019		Perfor	IUONS		
			ļ	Formations			Тор	Bottom
				San Andres			2262	2270
				<u> </u>				
						<del>                                     </del>	<del>                                     </del>	1
							<del> </del>	1
					arrive star to the National State			Marie Marie Carlos (Marie Carl
			* 4/17/01 - 4/23/	with 300 sx C	lass "C" w/ 3%	and re-cemented CaCl @ 15.4#/gal.	Circulated 1	
		7" hole  ♣Perforations	Proposed additi	with 300 sx Cl to pit. Ran bor out. (See BJ C	erforated 5-1/2" lass "C" w/ 3% nd log, top of ce Cementing repo	and re-cemented CaCl @ 15.4#/gal. ement at surface. G rt attached)	Circulated 1	
		7" hole Perforations 2262' - 2270' 5-1/2" casing @ 2635' w/ 65 sx	Proposed additi	with 300 sx Ci to pit. Ran bor out. (See BJ Ci ional perfs: 1998' - 2010' 2120' - 28' 2152' - 60' 2246' - 60' 2270' - 90'	erforated 5-1/2" lass "C" w/ 3% nd log, top of ce Cementing repo	and re-cemented CaCl @ 15.4#/gal. ement at surface. G rt attached)	Circulated 1	
Repared By:		Perforations 2262' - 2270' 5-1/2" casing	Proposed additi	with 300 sx Ci to pit. Ran bor out. (See BJ Ci ional perfs: 1998' - 2010' 2120' - 28' 2152' - 60' 2246' - 60' 2270' - 90'	erforated 5-1/2" lass "C" w/ 3% nd log, top of ce Cementing repo	and re-cemented CaCl @ 15.4#/gal. ement at surface. G rt attached)	Circulated 1	

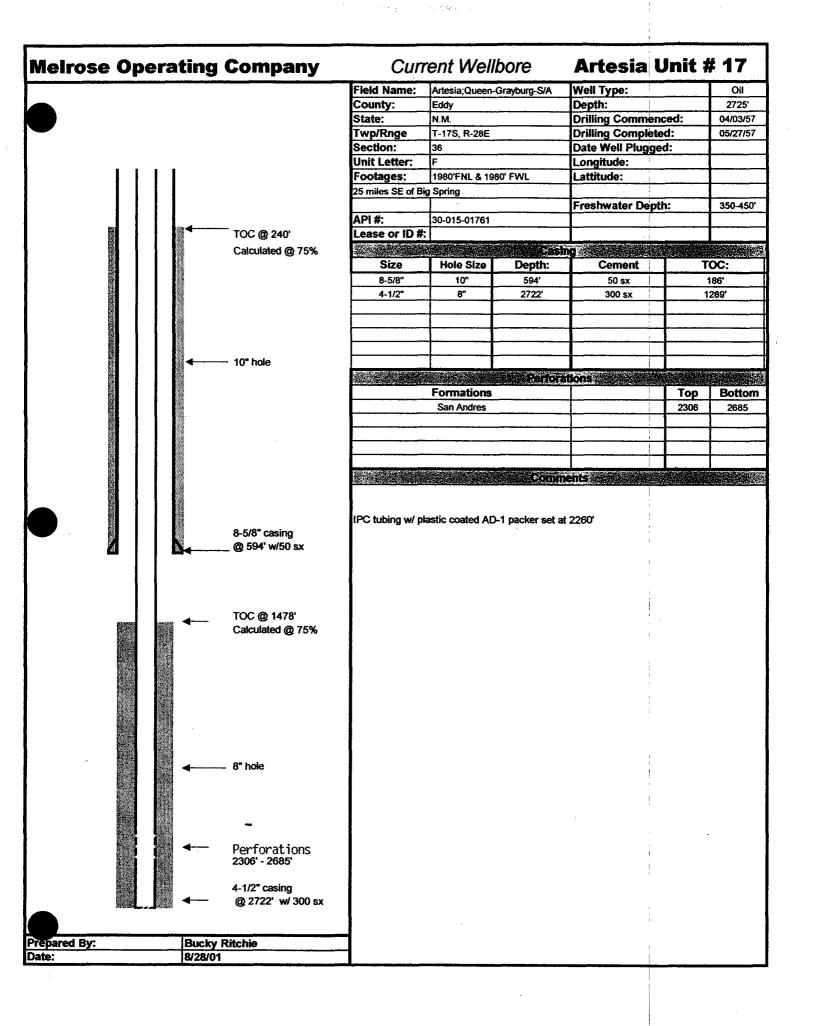


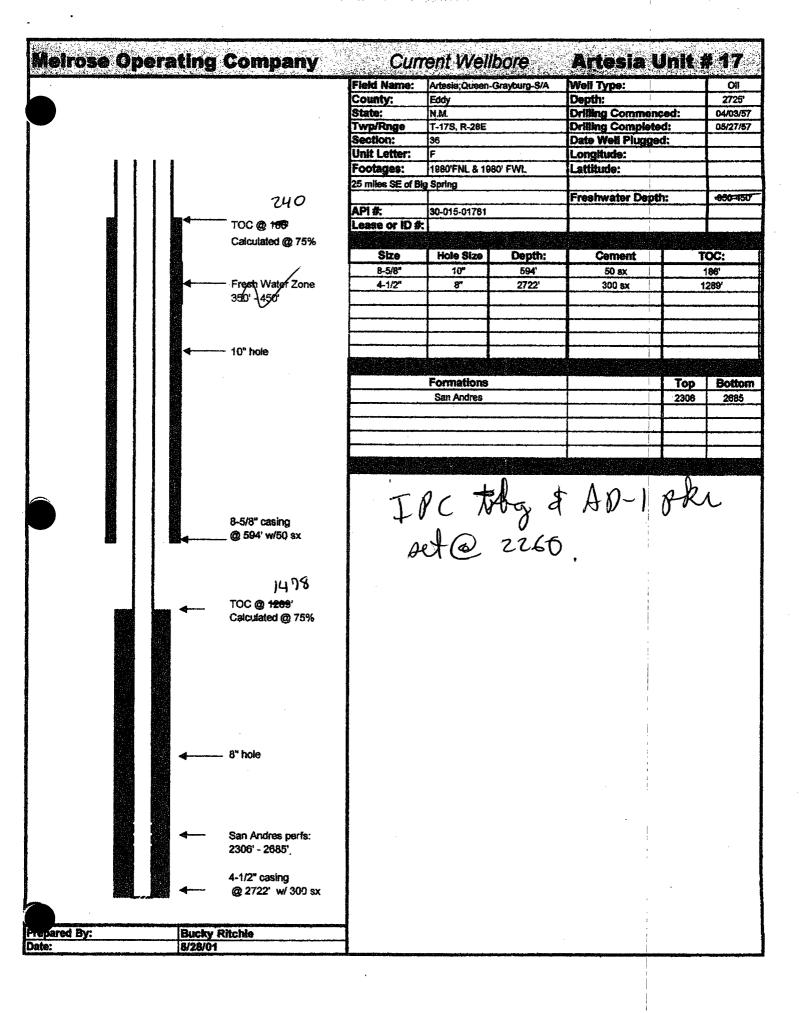
<b>Vielros</b>	e Opera	ating C	ompany	Cun	rent Well	bore	Artesia	Unit :	<b># 13</b>
				Field Name:	Artesia;Queen-	Grayburg-S/A	Well Type:		Oil
				County:	Eddy		Depth:		2900'
				State:	N.M.		<b>Drilling Comm</b>	enced:	12/30/54
				Twp/Rnge	T-17S, R-28E		<b>Drilling Comple</b>		03/03/55
				Section:	35		Date Well Plug		
				Unit Letter:	F		Longitude:	1	
	1 1	T	FOC @ surface	Footages:	1980' FNL & 19	80' FWL	Lattitude:		
			Circulated	25 miles SE of Bi				:	
							Freshwater De	pth:	350-450
				API#:	30-015-01754			!	
				Lease or ID #	:			1	T
						Casi	ng di		
				Size	Hole Size	Depth:	Cement	]	OC:
				8-5/8"	11"	475'	Mudded	<del></del>	Pulled
				5-1/2"	7"	2275'	80sx*		1830,
								1	
									<u> </u>
						Periora	ations		
					Formations			Тор	Botton
					San Andres			2275	2300
				*	Operator po	eformed 5.40"			
			· .	* 4/30/01 - 5/15/0	with 800 sx 35 to pit. Ran bon	erforated 5-1/2" 6/65 @ 12.6#/g	ments  ' @ 1800' and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
					with 800 sx 35 to pit. Ran bon out.	erforated 5-1/2" 6/65 @ 12.6#/g	' @ 1800' and re-ce al.& 200 sx Class "	C". Circulate	d 125 sx
				* 4/30/01 - 5/15/0	with 800 sx 35 to pit. Ran bon out. onal perfs:	erforated 5-1/2" 6/65 @ 12.6#/g	' @ 1800' and re-ce al.& 200 sx Class "	C". Circulate	d 125 sx
					with 800 sx 35 to pit. Ran bon out. onal perfs:	erforated 5-1/2" 6/65 @ 12.6#/g	' @ 1800' and re-ce al.& 200 sx Class "	C". Circulate	d 125 sx
					with 800 sx 35 to pit. Ran bon out. onal perfs: 2040' - 55' 2160' - 70'	erforated 5-1/2" 6/65 @ 12.6#/g	' @ 1800' and re-ce al.& 200 sx Class "	C". Circulate	d 125 sx
					with 800 sx 35 to pit. Ran bon out. onal perfs:	erforated 5-1/2" 6/65 @ 12.6#/g	' @ 1800' and re-ce al.& 200 sx Class "	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out. onal perfs: 2040' - 55' 2160' - 70'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>√</b>	<b>™</b> hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	<b>™</b> hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	<b>™</b> hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	** hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	** hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	** hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		7	** hole	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
				Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>←</b> — P(	erforations ·	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>←</b> — P(		Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>←</b> — P <sub>0</sub> 2	erforations 275' - 2300' (O.H.)	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>←</b> P <sub>0</sub> 2	erforations ·	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
		<b>←</b> P <sub>0</sub> 2	erforations 275' - 2300' (O.H.) -1/2" casing	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx
pared By:		<b>←</b> P <sub>0</sub> 2	erforations 275' - 2300' (O.H.) -1/2" casing @ 2275' w/ 80 sx	Proposed addition	with 800 sx 35 to pit. Ran bon out.  onal perfs:  2040' - 55' 2160' - 70' 2190' - 2200'	erforated 5-1/2" 1/65 @ 12.6#/g 1/d log, top of ce	" @ 1800" and re-ce al.& 200 sx Class " ement at surface. G	C". Circulate	d 125 sx

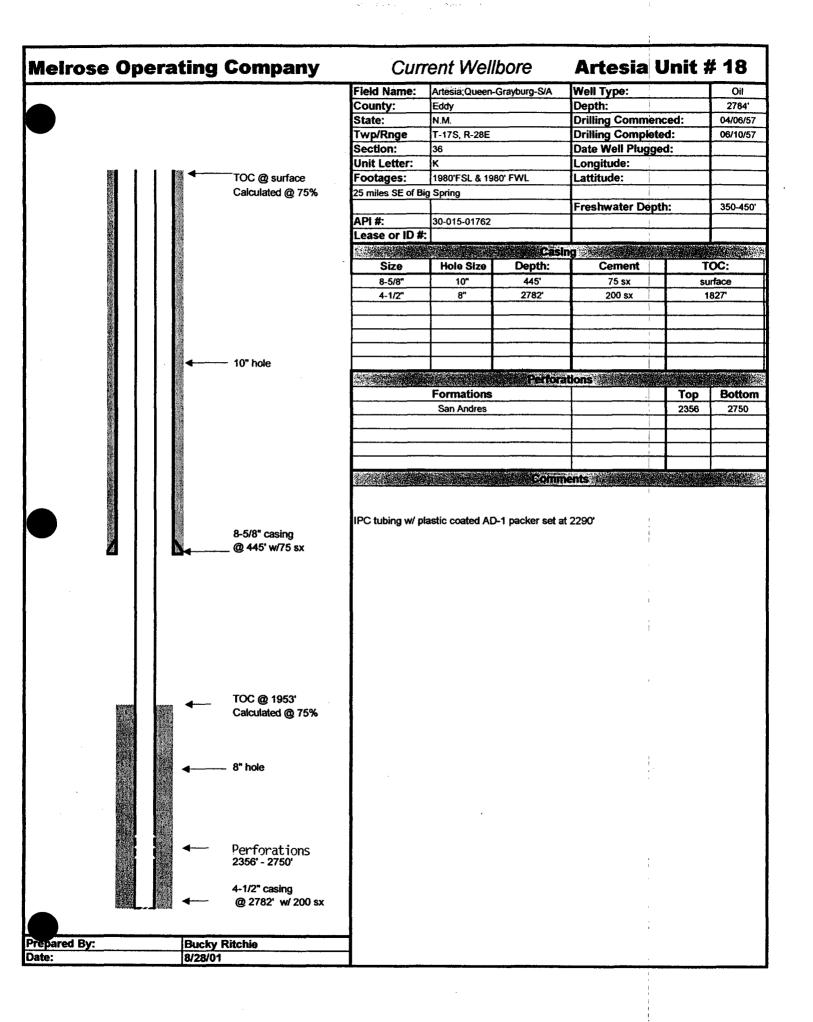
Meirose	Dnors				rent Welli		Artesia		
e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	Charl Archite			Fleid Name:	Artesia;Queen-0		Well Type:		Oil
				County:	Eddy	SIBYDUIG-SVA	Depth:	<del></del>	2900'
				State:	N.M.		Drilling Comme	nced:	12/30/54
				Twp/Rnge	T-17S, R-28E		Drilling Comple	ted:	03/03/55
				Section:	35		Date Well Plug	ged:	
	4 1		maa	Unit Letter:	F		Longitude:	<del></del>	<u> </u>
		◀	_ TOC @ surface	Footages: 25 miles SE of I	1980' FNL & 19	80' FWL	Lattitude:		<del> </del>
			AMARIA CONCUMINA	, 25 mas 52 or i	oig opring		Freshwater De	oth:	350-450
				API#:	30-015-01754				
				Lease or ID	k	manager (Other Programs)			
				Size	Hole Size	Depth:	Cement		roc:
				8-5/8" 5-1/2"	7"	475' 2275'	Mudded 80sx*		Pulled 1830'
				3-1/2		2210	OVSX		1000
			/						
		◀	Fresh water Zone						
			350' ⊌50'	<b></b>			<b></b>		
				2514 (07/25/94)	Formations			Тор	Bottom
					San Andres		1	2275	2300
				L					<del> </del>
				X					
					VII (ØSISSE) (SE			3653500	N. C. C. C. C. C. C. C. C. C. C. C. C. C.
				• 4/30/01 - 5/15/			' @ 1800' and re-ce		
					with 800 sx 35 to pit. Ran bon out.	/65 @ 12.6#/g d log, top of ce	* @ 1800' and re-ce al. & 200 sx Class "C ament at surface. Go	c". Circulate and bond thr	d 125 sx cough
					with 800 sx 35 to pit. Ran bon out.  mated  2040	/85 @ 12.6#/g d log, top of ce / / No Po	al.& 200 sx Class "C ament at surface. Go	c". Circulate and bond thr	d 125 sx cough
					with 800 sx 35 to pit. Ran bon out.  mated  2040	/85 @ 12.6#/g d log, top of ce / / No Po	al.& 200 sx Class "C ament at surface. Go	c". Circulate and bond thr	d 125 sx cough
					with 800 sx 35 to pit. Ran bon out.  mated 2040 2160	/85 @ 12.6#/g d log, top of ce // No Po - 55 - 7. O	al. & 200 sx Class "G ament at surface. Go	c". Circulate and bond thr	d 125 sx cough
					with 800 sx 35 to pit. Ran bon out.  mated  2040	/85 @ 12.6#/g d log, top of ce // No Po - 55 - 7. O	al. & 200 sx Class "G ament at surface. Go	c". Circulate and bond thr	d 125 sx cough
			- 7" hole	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
		•	~ 7 <b>*</b> hole	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
			− 7" hole	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
			~ 7* hole	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
				Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "G ament at surface. Go	C". Circulate bod bond thr	d 125 sx rough
				Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
		•	San Andres perfs: 2275' - 2300' (O)	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
		-	San Andres perfs: 2275' - 2300' ( O H )	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
			San Andres perfs: 2275' - 2300' (O H) 5-1/2" casing	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
			San Andres perfs: 2275' - 2300' ( O H )	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
			San Andres perfs: 2275' - 2300' (O H) 5-1/2" casing @ 2275' w/ 80 sx	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough
Prepared By:		Bucky   8/28/01	San Andres perfs: 2275' - 2300' (O H) 5-1/2" casing @ 2275' w/ 80 sx	Coti	with 800 sx 35 to pit. Ran bon out.  2040 2160 2190	/85 @ 12.6#/g d log, top of oc - 55 - 7. O - 7. C	al. & 200 sx Class "Granent at surface. Go	C". Circulate bod bond thr	d 125 sx rough

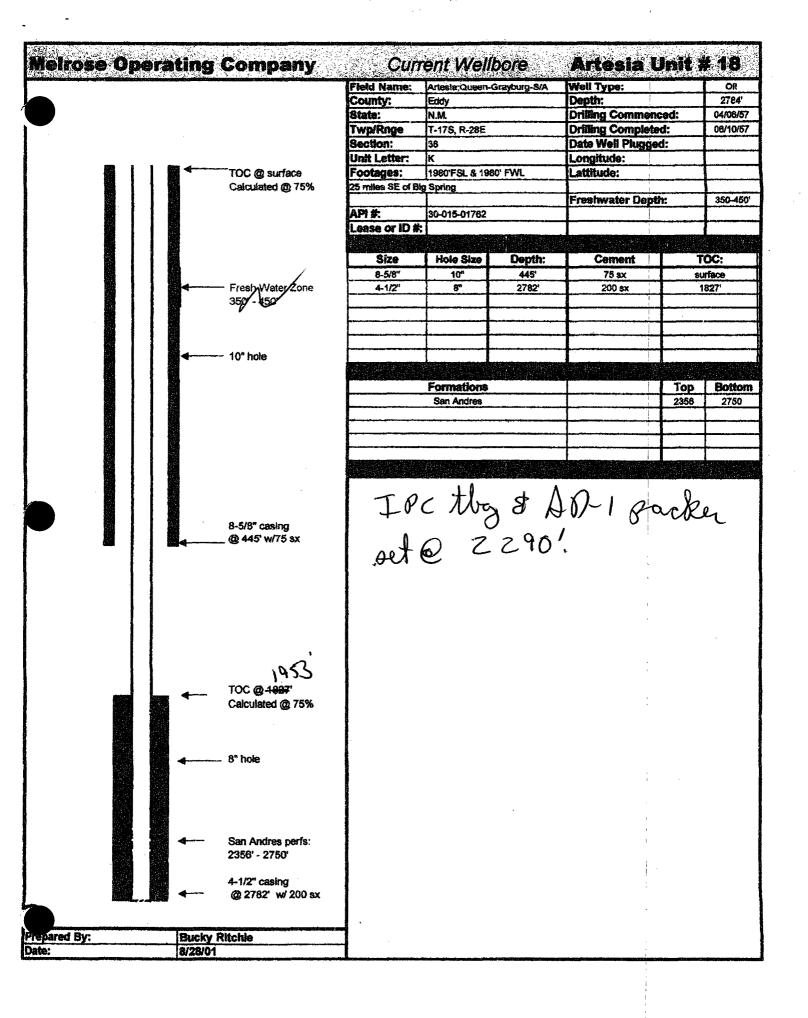


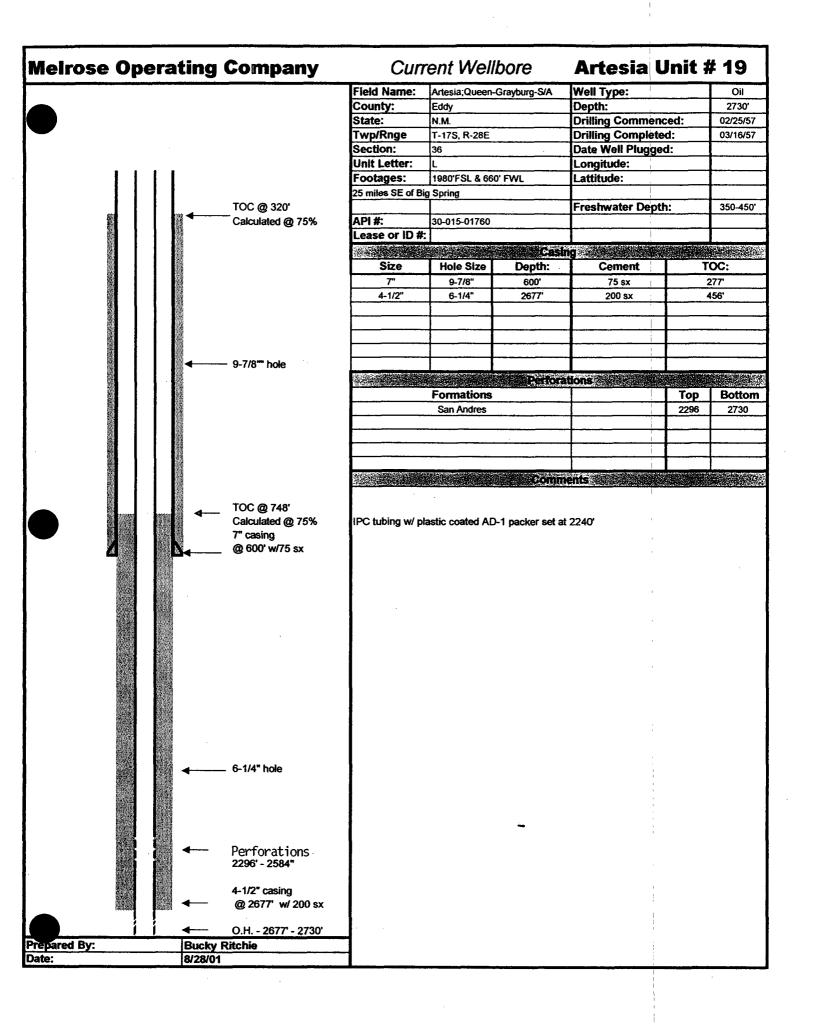


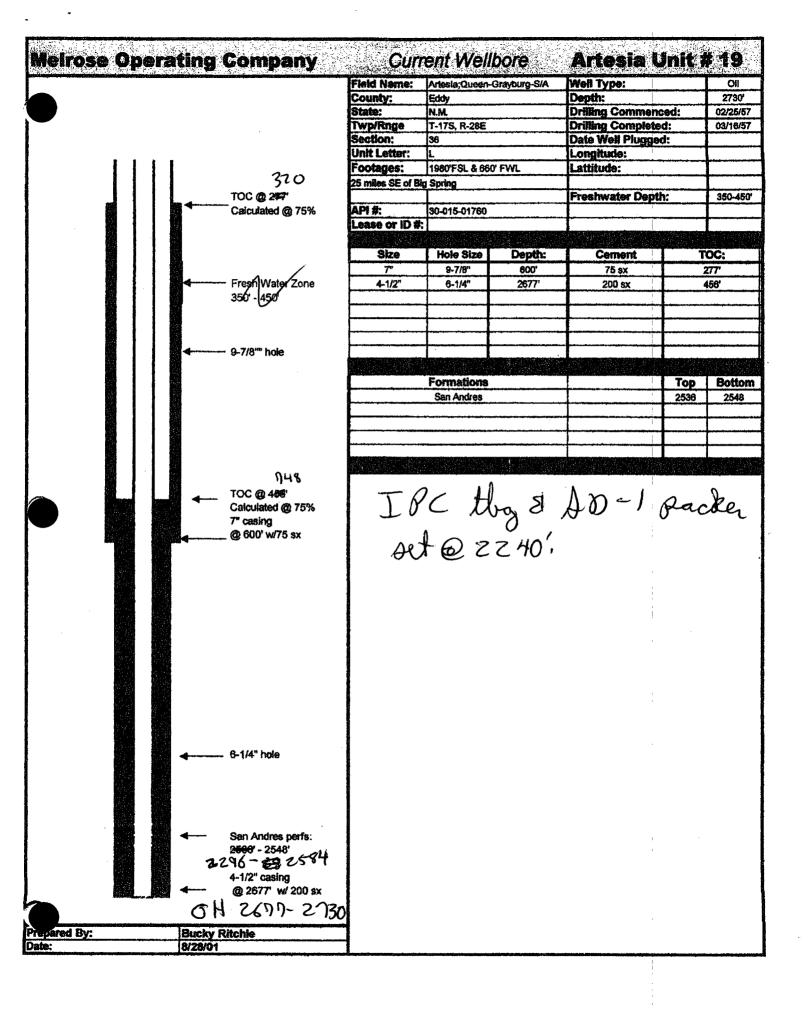




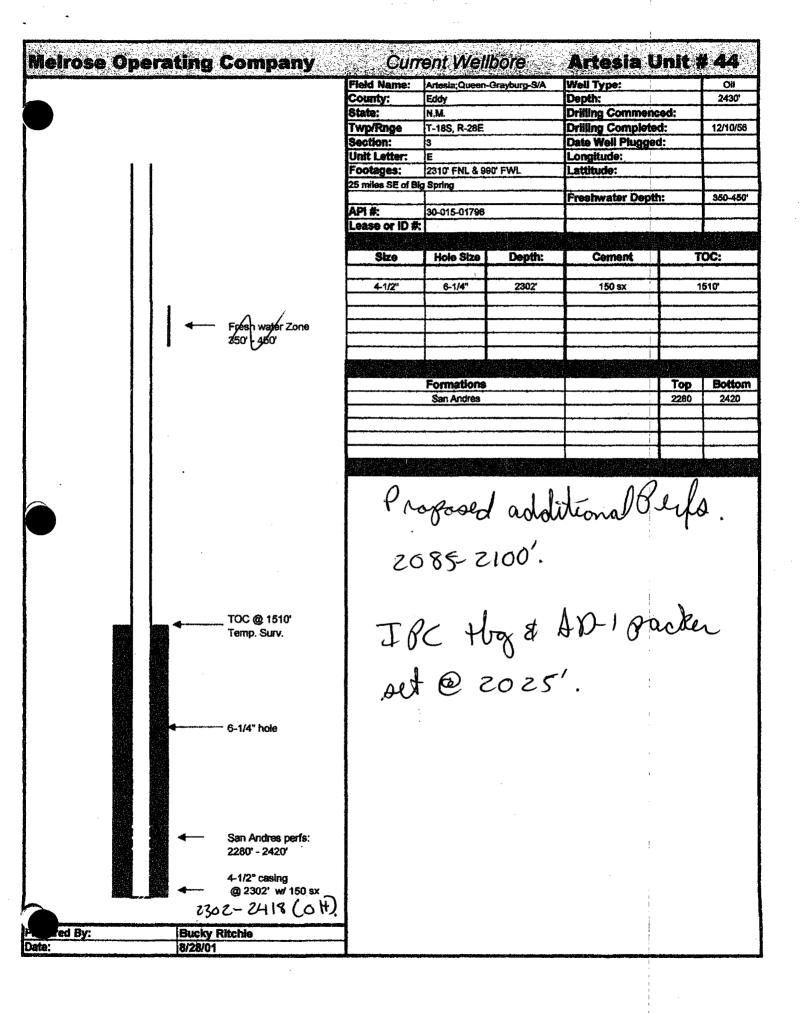




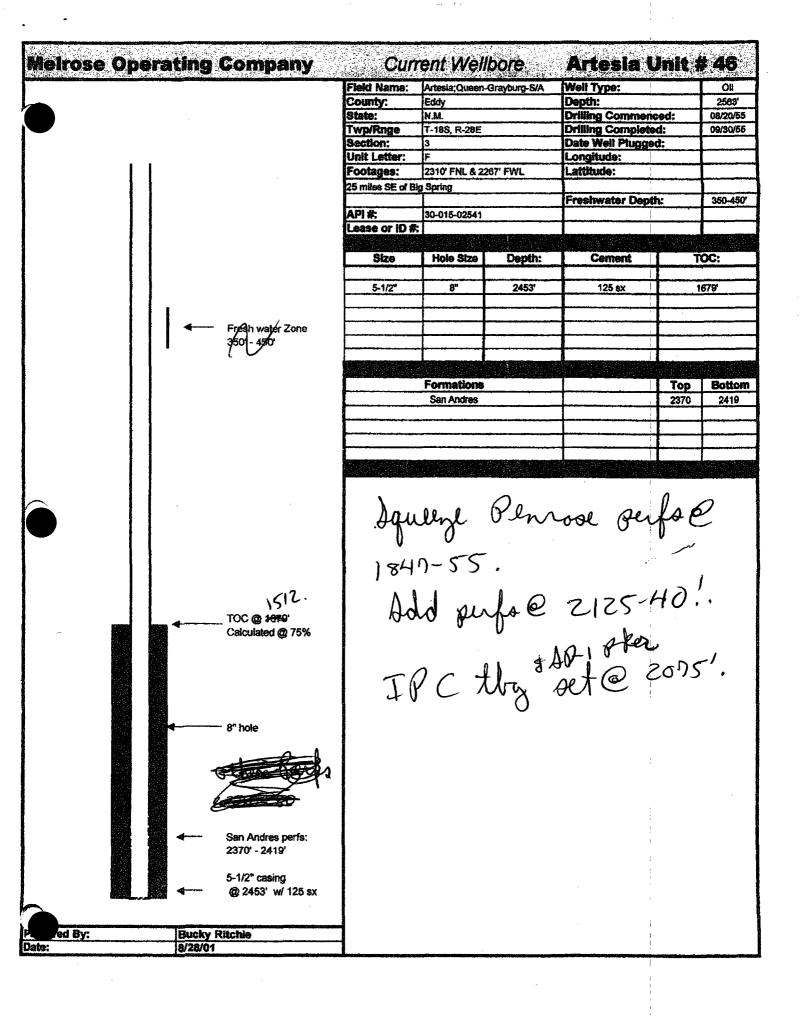


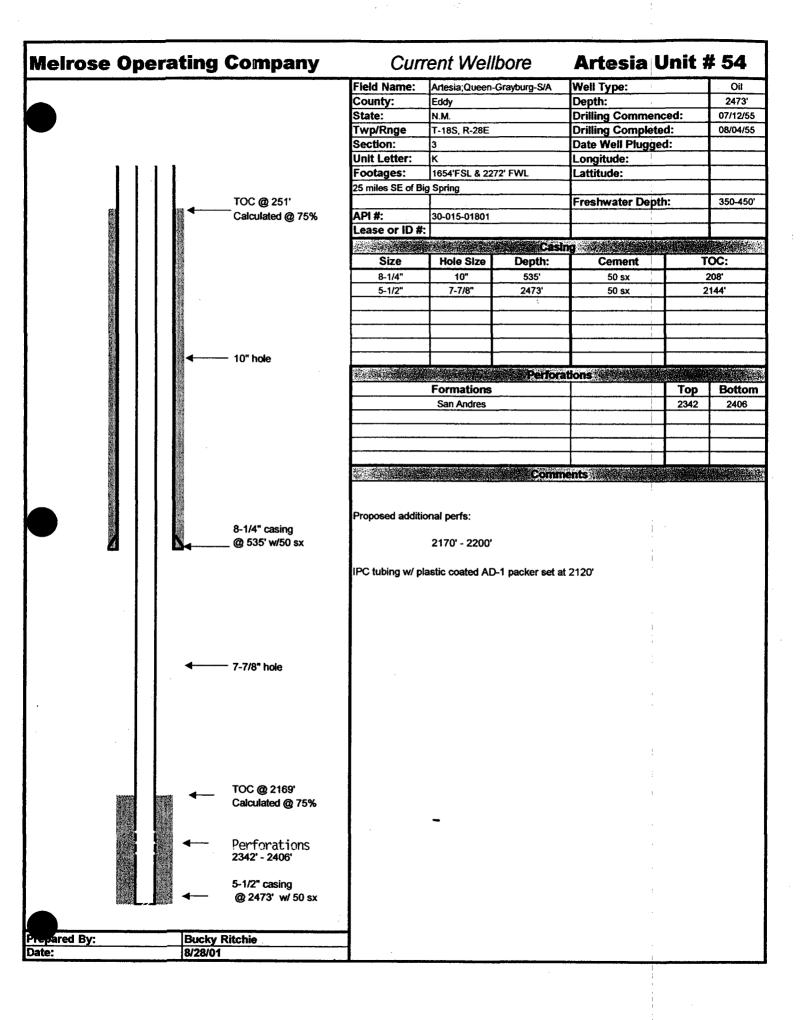


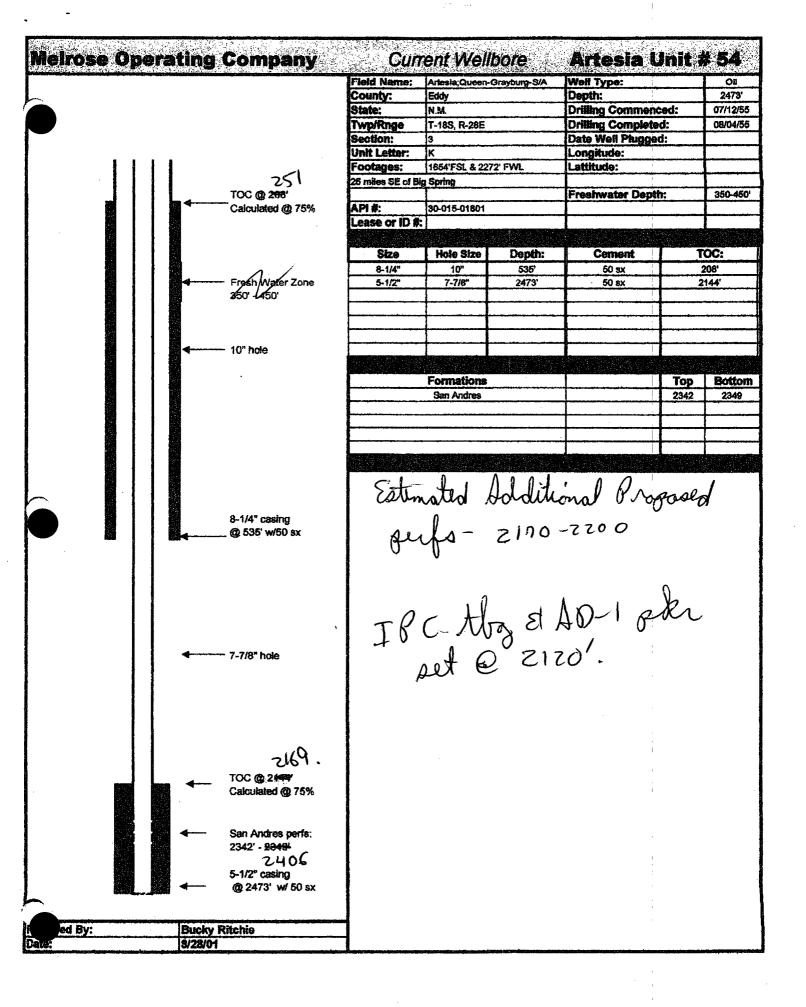
Melrose Operating Company	Cur	rent Well	bore	Artesia	Unit :	<b># 44</b>
	Field Name:	Artesia;Queen-	-Grayburg-S/A	Well Type:		Oil
	County:	Eddy		Depth:		2430'
	State:	N.M.		Drilling Comme		
	Twp/Rnge	T-18S, R-28E		Drilling Comple		12/10/56
	Section:	3		Date Well Plug	ged:	
	Unit Letter:	Ε		Longitude:		
	Footages:	2310' FNL & 99	90' FWL	Lattitude:		
·	25 miles SE of B	ig Spring				
				Freshwater De	oth:	350-450
<b>i</b> i	API#:	30-015-01796				
<b>1 1</b> .	Lease or ID #	:				
	100		Casi	101		
i i	Size	Hole Size	Depth:	Cement	T	OC:
					<u>1</u>	
1 1	4-1/2"	6-1/4"	2302'	150 sx	1	510'
					<u> </u>	
		1				
		1			<del>-  </del>	· · · · · · · · · · · · · · · · · · ·
[ ]					1	
			Perfor	tions		
		Formations			Тор	Botto
		San Andres	····		2280	2420
1 1		- Can 7 1101 63		1	2200	4420
<b>[</b> ]				1	<del>                                     </del>	<del> </del>
				<b> </b>		<b>†</b>
				1	-1	<del>                                     </del>
1 1				ents a second		
	Proposed additi	2085' - 2100'		;		
TOC @ 1510' Temp. Surv.						
<b>4</b> 6-1/4" hole			•			
Perforations 2280' - 2420'  4-1/2" casing @ 2302' w/ 150 sx		)				
O.H 2302' - 2420'						
pared By: Bucky Ritchie	_]					
e: 8/28/01						

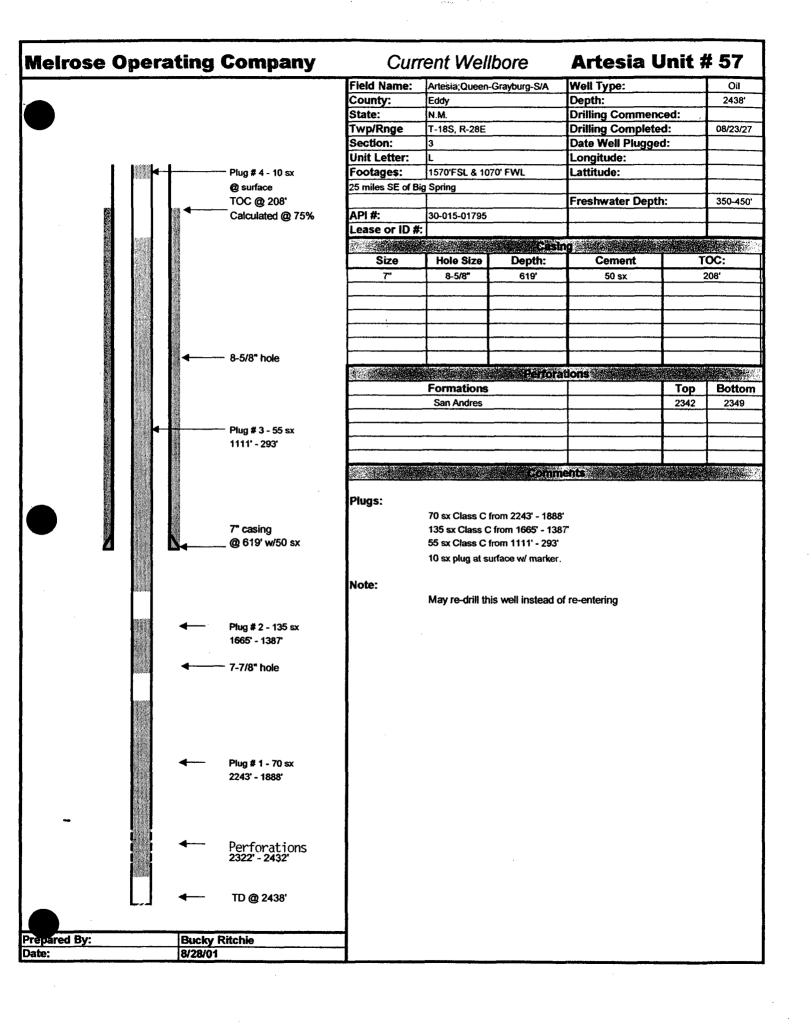


lelrose Operating Company	Cur	rent Well	bore	Artesia	Unit	# 46
	Field Name:	Artesia;Queen-	Grayburg-S/A	Well Type:		Oil
	County:	Eddy		Depth:		2563'
	State:	N.M.		Drilling Commo		08/20/55
	Twp/Rnge	T-18S, R-28E		Drilling Compk		09/30/55
	Section:	3		Date Well Plug	ged:	
	Unit Letter:	F		Longitude:		<b></b>
	Footages:	2310' FNL & 22	67' FWL	Lattitude:		<b></b>
	25 miles SE of B	ig Spring				<u> </u>
	L			Freshwater De	pth:	350-450'
	API #:	30-015-02541		<b>_ </b>		<u> </u>
	Lease or ID #			<u> </u>	THE PERSON NAMED IN COLUMN	
				10	či, etiesti	Mark Pro
· ·	Size	Hole Size	Depth:	Cement		roc:
1 1						
	5-1/2"	8"	2453'	125 sx		1679'
		ļl		<u> </u>		
		ļl	·····	<b></b>		
		- <b> </b>				
	Course room to the company of the course				and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	November 1
			## (Or	itions		
		Formations			Тор	Botton
		San Andres			2370	2419
			<u> </u>			
•						<u> </u>
		<del> </del>	<del> </del>			
	Constitution for the constitution of		~~~			
•			6000	ents 200		
	Squeeze Penro Proposed additi	se perfs at 1847 onal perfs:	' - 55'			
		2125' - 40'				
	IPC tubing w/ p	lastic coated AD	-1 packer set a	t 2075'		
TOC @ 1512' Calculated @ 75%			•			
<b>4</b> 8" hole						
Perforations. 2370' - 2419'						
5-1/2" casing						
@ 2453' w/ 125 sx						
	4					
Pared By: Bucky Ritchie						









Tony do you re-liter as redult

	CONTRACTOR S	ting Comp	Fleid Name:	Artesia;Queen-	bore Graduura-S/A	Artesia	Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Consti	OII
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			County: State:	N.M.		Drilling Commer	rced.	2430
			Twp/Rnge	T-18S, R-28E		Drilling Complet		08/23/27
			Section:	3		Date Well Plugge		
			Unit Letter:	L		Longitude:		
1			o sx Footages:	1570'FSL & 107	O' FWL	Lattitude:	***************************************	1
		@ surface	25 miles SE of B	ig Spring			·····	
		TOC @ 20				Freshwater Dep	th:	350-450
		Calculated		30-015-01795	******			<u> </u>
	النبا ا		Lease or ID #					
			Size	Hole Size	Depth:	Cement	1 7	OC:
		4	/ 7"	8-5/8"	619'	50 sx		208'
		Fresh Wal 350' - 450'	er Zone	<u> </u>				
		350' -450					<u> </u>	
						<u> </u>		
						<b>_</b>	<b></b>	
		<b>◄</b> 8-5/8" hole		<del>-  </del> -		- <del> </del>	<del> </del>	<del></del>
		O-DIO HUR						
				Formations			Тор	Botton
			<del> </del>	San Andres	<del></del>	<del> </del>	2342	2349
			<del> </del>	O01173 M103		<del> </del>	1 2372	2349
		Plug # 3 - 5	5 sx				1	<b> </b>
		1111 - 293					1	
鬞							- Annual Control	
			Plugs:					
			ł		rom 2243' - 1888			
		7" casing		135 sx Class C				
<b>2</b>		@ 619' w/s	ou sx	55 sx Class C fr				
				10 sx plug at su	nace w marker.			
			i			•		
					a			. 1
				Μα	ما			. 1/
		◆ Plug # 2 - 1	35 sx	Naux	redr		2 MH	
		Plug # 2 - 1 1665' - 138'	95 sx	Navy	ridi	ill this	2 MH	III
		1685' - 138	95 sx	Navy	redi	ill this	2 MH	Il .
		<del>-</del>	95 sx	Navy	ridi	ill this	w c	W.
		1685' - 138	95 sx	Navy	ridi d of	ill this	2 m	III
		1685' - 138	95 sx	Navy	ridi d of	ill this	2 w	S.
		1685' - 138	95 sx	navy	ridi d of		2 w	W.
		1685' - 138	35 sx	navy	ridi d of	ill this	2 w	W.
		1685' - 138	35 sx	Navy	ridi d of	ill this	2 w	W.
		1665 - 138' 7-7/8" hole	גֿע	Navy	ridi d of	ill this	tern	W.
		1685' - 138	). Dex	Navy	ridi d of	ill this	tern	W.
		7-7/8" hole	). Dex	Navy	ridi d of	ill this	ten	W.
		7-7/8" hole	). Dex	Navy	ridi d of	ill this	tern	W.
		7-7/8" hole	). Dex	nay	ridi d of	ill this	tern	W.
		7-7/8" hole  Plug # 1 - 7 2243' - 1886	) sx	nay	ridr d of	ill this	tern	W.
		7-7/8" hole  7-7/8" hole  Plug # 1 - 7 2243' - 1889	D sx	nary	ridr d of	ill this	2 w	W.
		7-7/8" hole  Plug # 1 - 7 2243' - 1886	D sx	nary	ridr d of	ill this	tern	W.
		7-7/8" hole  7-7/8" hole  Plug # 1 - 7 2243' - 1889	D sx	nary	ridr dof	ill this	tern	W.
		7-7/8" hole  Plug # 1 - 7 2243' - 1886  San Andre 2322' - 243	s perfs:	nary	ridr dof	ill this	2 w	W.
		7-7/8" hole  7-7/8" hole  Plug # 1 - 7 2243' - 1889	s perfs:	nary	ridr dof	ill this	2 w	II .
		7-7/8" hole  Plug # 1 - 7 2243' - 1886  San Andre 2322' - 243	s perfs:	nalia	ridi dol	ill this	2 w	W.
epared By:		7-7/8" hole  Plug # 1 - 7 2243' - 1886  San Andre 2322' - 243	s perfs:	nalia	ridi dof	ill this	tern	W.