

1R - 164

**GENERAL
CORRESPONDENCE**

YEAR(S):

1980 - 1962



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

M E M O R A N D U M

TO: TOM PARKHILL
FROM: JOE D. RAMEY *JDR*
SUBJECT: NEEDED INVESTIGATION AND REPORT

An investigation and report are needed to determine whether or not the surface disposal of oil field brines should be continued in and around Section 13, Township 19 South, Range 32 East, and Section 18, Township 19 South, Range 33 East, Lea County, New Mexico. This is an area given an exemption from the provisions of Order R-3221 to allow for surface disposal of oil field brines. Evidence recently received seems to indicate there are useable water wells in the area which could be negatively affected by such surface disposal and we need to evaluate the risks thereof to such water wells.

It is suggested that the final report should contain at least the following:

- (1) An area map on a readable scale locating water wells, oil and gas wells, tank batteries, and disposal pits. ✓
- (2) Crossections of the area. These sections should show the water wells, their producing depth, and formation information from whatever sources available.
- (3) A description of the formations from the surface to the water zones and a detailed evaluation of their ability to transmit water vertically from the disposal site to the water zone. This report should include a brief discussion of the data relied upon to make the evaluation.
- (4) If possible, locate the general area of entry of surface water into the water zones.
- (5) Any other data or literature references you consider appropriate.
- (6) A recommendation as to whether surface disposal should be continued. ✓

Page 2
Memorandum to Tom Parkhill
June 18, 1980

*called on June 17, 1980, no return call
called on June 18, 1980, no return call*

Mr. Larry Squires of the Snyder Ranches (phone 393-7544) called on June 18, 1980, also concerned about this matter. Both the pit and water wells are on the Snyder Ranch. Mr. Squires has well records on these water wells and should be contacted for these and other available data.

I would like this report completed within the next 30 days.

Call back on June 19, 1980, and see if we can get any more information on this.

June 18, 1980
fd/

Albuquerque Analytical, Inc.

4115 SILVER AVE., S. E.
ALBUQUERQUE, NEW MEXICO 87108
Telephones: (505) 266-9106, (505) 268-5776 — Night 294-6310



ANALYTICAL REPORT

From Mr. Tom Parkhill Oil Conservation Division

Address P.O. Box 2088 Santa Fe, NM 87501

Work authorized by Mr. Tom Parkhill Date Received June 25, 1980

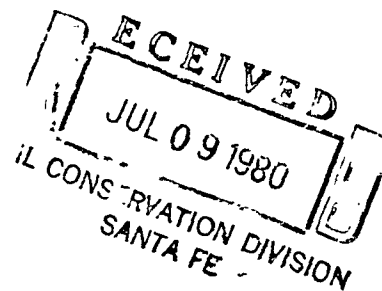
Analyzed by J.M. Grover, M.S. Date July 2, 1980 AAI# 12150

Jan 9

SAMPLE ID	TDS (ppm)	Cl (ppm)	SO ₄ (ppm)
#1 Mark Smith Ranch 19-33-26-42221	1,864.0	290.0	693.1
#2 L. Squires E-18-19-33 West Well	1,264.0	138.0	428.1
#3 L. Squire E-18-19-33 East Well	3,544.0	96.0	1,455.4
#4 Collier & Collier E-18-19-33	20,444.0	9,480.0	2,634.2
#5 L. Squires 19-32-8-22411 West Mill	944.0	68.4	123.5

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Address P.O. Box 2088 Santa Fe, NM 87501

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JMG

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Telephone (505) 266-9106 - Night 294-6310

DATE July 2, 1980

Santa Fe, NM 87501

[illegible]

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

June 23, 1980

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

Albuquerque Analytical, Inc.
4115 Silver Ave. SE
Albuquerque, NM 87108

Dear Sir,

The enclosed five water samples are to have analysis run for:
1.) Total dissolved solids, 2.) sulfates, and 3.) chlorides. I
understand arrangements have already been made with you by Tom Parkhill
of the Oil Conservation Division, Santa Fe (827-2533).

Please send a copy of the analysis to:

Mr. Tom Parkhill
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

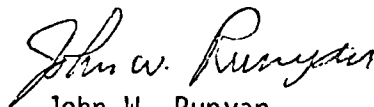
and a copy to:

Mr. John Runyan
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Also send the bill for the analysis to Tom Parkhill, O.C.D. Santa Fe.

Sincerely,

OIL CONSERVATION DIVISION



John W. Runyan
Geologist



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

June 30, 1980

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Mr. John L. Scarborough
Scarborough Drilling Co.
122 N. 24th
Lamesa, Texas 79331

Dear Mr. Scarborough:

Enclosed is your copy of the fully executed and approved contract for drilling a minimum of 21 water study wells in Lea County, New Mexico.

As you know the June 10 tentative date for commencement of the work has passed. I also realize that you may have commenced other projects while this contract has been through the approval route. Nevertheless, we are now anxious and ready to commence this project as soon as your schedule permits. Therefore, please coordinate commencement dates with Jerry Sexton, Supervisor of our Hobbs district. Mr. Sexton can be reached by calling (505) 393-6161 in Hobbs.

If you have any questions, please let me know.

Very truly yours,

ERNEST L. PADILLA
General Counsel

ELP/dr

cc: Mr. Jerry Sexton
Mr. Tom Parkhill

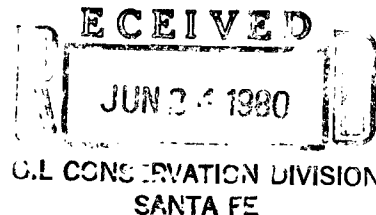


BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE
June 23, 1980

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

Tom Parkhill
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501



Tom,

I sent the five water samples, via bus, today to Albuquerque as per your instructions. Attached is a copy of the letter that I enclosed with samples. The five samples are from:

- 1.) Mark Smith -- Ranch house -- Located in 19-33-26 422221 (Unit I). Sample taken with well pumping. The Smith's use this water for both domestic and stock. (They do haul in water for drinking). Water level depth is unknown. Well completed in alluvium. (Pleistocene).
- 2.) Snyder Ranch East well (At Corral) Located in E-18-19-33. Sample taken from well while pumping. (one with small pump jack). Depth 800', water level unknown. Well completed in Triassic -- Santa Rosa zone -- Used for stock.
- 3.) Snyder Ranch West well (at Corral) Located in E-18-19-33. Sample taken from well while pumping (well has submergible pump). Depth 800' in Santa Rosa zone of Triassic "Redbed". Used for stock.
- 4.) Taken from line at pit from separator, at the collier and collier -- Federal "18" battery. Located in E-18-19-33. Water runs continuously into pit. Produced brine water.
- 5.) Snyder Ranch Windmill -- "North Mill". Sample taken from large metal storage tank, static, not enough wind to pump windmill. Located in A-8-19-32. Well completed at 550'. Water level unknown. Completed in Triassic.

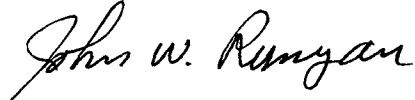
Attempted to get to Snyder Ranch, North Mill, but got stuck with in one-half mile of windmill. Water present. Located in Unit C 5-19-33. Depth of well is 430' in Triassic, water level unknown. Did not have enough line to get sample.

The Snyder Ranch owner is Mr. Larry Squires of Hobbs, and his phone number is 505-393-7544.

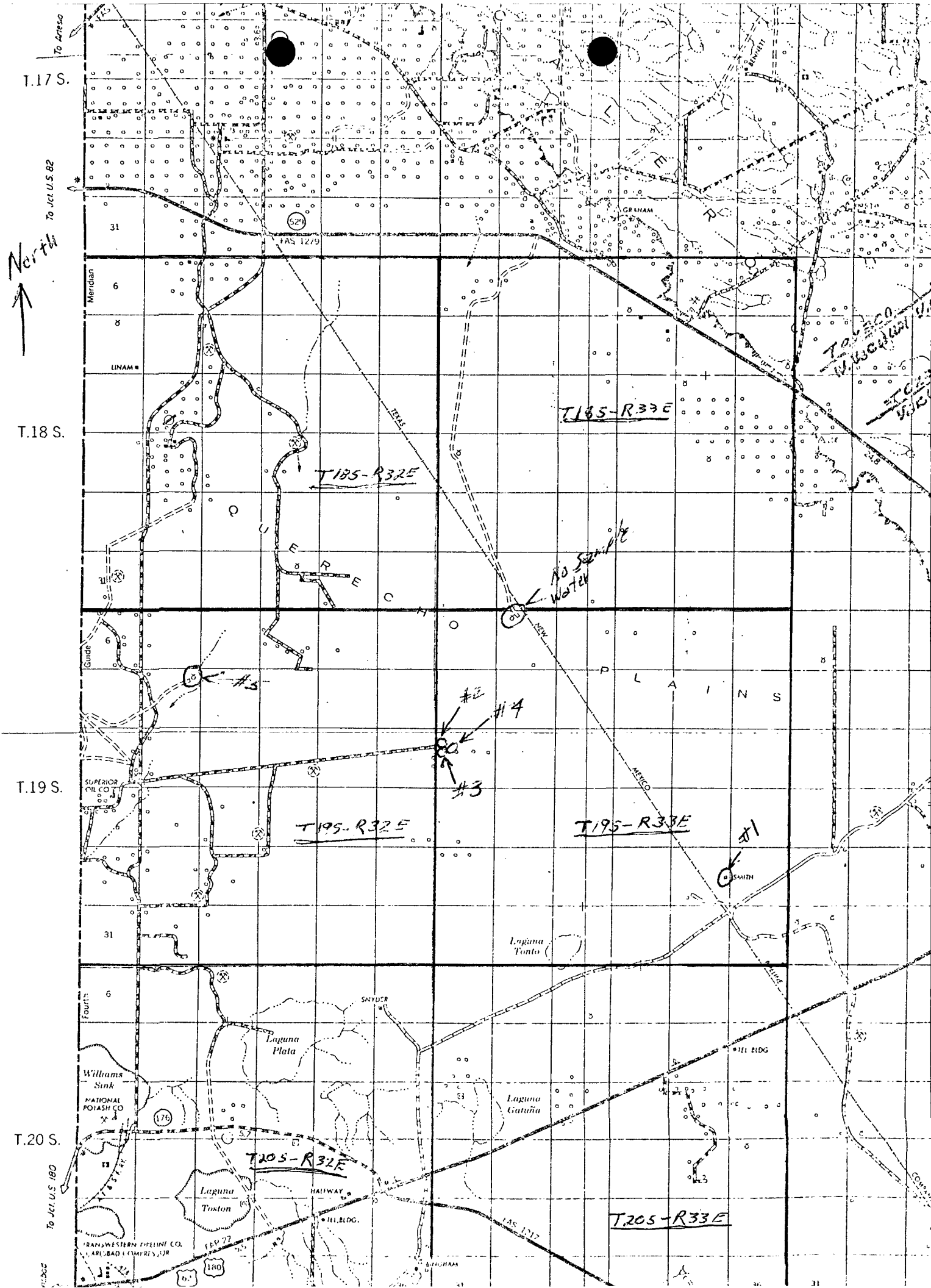
I am having a blank sepia run for you, it consists of six townships so that it will cover, T 18 to 20S, and R 32 and 33 E, I will mail it as soon as I get it back from the printers.

Sincerely,

OIL CONSERVATION DIVISION

A handwritten signature in cursive script that reads "John W. Runyan". The signature is written in dark ink and is positioned above the printed name and title.

John W. Runyan
Geologist





BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

June 23, 1980

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Please send a copy of the analysis to:

Mr. Tom Parkhill
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

and a copy to:

Mr. John Runyan
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Also send the bill for the analysis to Tom Parkhill, O.C.D. Santa Fe.

Sincerely,

OIL CONSERVATION DIVISION

John W. Runyan
John W. Runyan
Geologist

TEXAS, NEW MEXICO & OKLAHOMA COACHES, INC. 1313 13TH STREET — LUBBOCK, TEXAS 79401 DESTINATION STATION		ISSUING CARRIER K 022 592	
CONSIGNEE Albuquerque Analytical, Inc. STREET ADDRESS 4115 Silver Ave SE		PHONE K 022 592	
NO. OF PIECES OTHER <input type="checkbox"/> PKG <input type="checkbox"/> BOX <input type="checkbox"/> CTN <input type="checkbox"/> ENV <input type="checkbox"/> SACK <input type="checkbox"/> LUGGE		CONSIGNEE NOTIFIED MO. DAY YR. TIME A. P.	
DIMENSIONS IN INCHES X X		ACTUAL WT. 185	
CONTENTS		TARIFF WT. 185	
SHIPPER'S NAME Avery and Minerals & Chemicals STREET ADDRESS P.O. Box 1980 ORIGIN CITY, STATE Albuquerque, N. Mex.		CARRIER TO: 1 ROUTING INSERT EACH CARRIER'S ABBREVIATION AND JUNCTION POINT ON LINES BELOW AMT →	
SHIPPER'S RECEIPT PREPAID		FORWARDING AGENT KUM	
EXPRESS CHARGES \$ 5.85		MO. DAY YR. TIME 6 23 80 1 50 A	
CHARGES ADVANCED \$		VALUE CHARGES \$ 1	
SUB TOTAL \$ 5.85		STATE TAX \$ 1.18	
TOTAL PREPAID \$ 6.03		TOTAL PREPAID \$ 6.03	

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS
 LIABILITY: The carrier will not pay over \$50.00 for any shipment of 100 pounds or less, or 50¢ per pound actual weight for any shipment in excess of 100 pounds, unless a greater value is declared and charges for such greater value paid. Maximum valuation any one shipment is limited by tariff.



EDDY COUNTY

Beker Industries Corporation (IND #11), 21S, 27E, 24.2

Shallow ground water produced from a domestic well located down-gradient from this currently inactive anhydrous ammonia and urea fertilizer manufacturing plant contained up to 80 mg/l of urea. The owner of this well, which penetrates Quaternary alluvium and the Permian Rustler Formation, reported an anomalous water level rise prior to sampling. (2, 31, 45)

Suspected causes of this situation include unauthorized surface discharges and possible seepage from waste water lagoons at this facility.

Carlsbad (Standpipe Road Vicinity), 22S, 26E, 11 and 14

A high density of private sewage disposal systems has apparently caused elevated NO_3^- concentrations and fecal coliform counts in the shallow aquifer south of Carlsbad. Some residents of this area have contracted hepatitis and salmonellosis. (31)

Harris Well, 22S, 27E, 17 (N 1/2)

Beginning in 1973, the owner of this 200 foot deep, totally cased domestic well complained about an oily taste in the water. Several gas and oil production wells are nearby, however chemical analyses of the well water are inconclusive. (9, 31)

Navajo Refinery Company (OAG #8 and #9), 17S, 26E, 1 and 12

The wastewater lagoons are located very close to the Pecos River, (the lowest lagoon is flooded routinely), and there is a history of spills and breaches which sometimes flow into the river. The combined percolation rate for two of three lagoons and effluent ditch is estimated to be 27 gpm, however, the contamination of shallow ground water remains to be conclusively documented. (4)

Potash Refining Operations (general facts)

A recent water budget study disclosed that during one year the potash refineries imported 19,824 acre feet of fresh water from distant aquifers (e.g., Tertiary Ogallala Formation) and discharged approximately 19,100 acre feet of brine wastes at or near the millsites. (24)

The most significant effects these operations have on the hydrologic system of the potash area are:

- (1) Increased mineralization of ground water naturally containing more than 1000 mg/l total dissolved solids in the vicinity of the mills.
- (2) Increasing amounts of water in storage in the hydrologic system (estimated to be approximately 17% of the annual total of imported water) resulting in:

Artesia May 3, 1980

(A) Pick up charts for
Dick Stamets

(B) Look over Potash
Mining area S. of
Artesia or gas plants

- A. Rising water tables,
- B. Increased wetted areas of natural brine lakes,
- C. Creation of artificial brine lakes,
- D. Creation of a brine aquifer in previously dry sediments. (25)

AMAX Chemical Corporation (MNG #79) 19S, 30E, 10

Seepage from these potash refinery brine disposal ponds is estimated to have migrated through the Permian Rustler Formation a maximum distance of 6,267 feet towards the southeast. (25)

Duval Corporation (MNG #77), 20S, 30E, 35.2

Seepage from these potash refinery brine disposal ponds is estimated to have migrated through the Permian Dewey Lake Redbeds a maximum distance of 152 feet towards the southeast and possibly towards the north as well. (25)

International Minerals and Chemical Corporation (MNG #76), 22S, 29E, 12.2

Brine discharges from this potash refinery have caused water level rises in natural brine lakes down-gradient. Two wells also down-gradient from the IMC discharge were previously used for stock watering but now contain brine. Current static levels are at or above the ground surface; the static level in one of these wells was 134 feet below the land surface in 1948. (25)

Kerr-McGee Chemical Corporation (MNG #78, #82), 21S, 31E, 4.4

Seepage from these potash refinery brine disposal ponds is estimated to have migrated through Triassic deposits a maximum distance of 130 feet towards the south. (25)

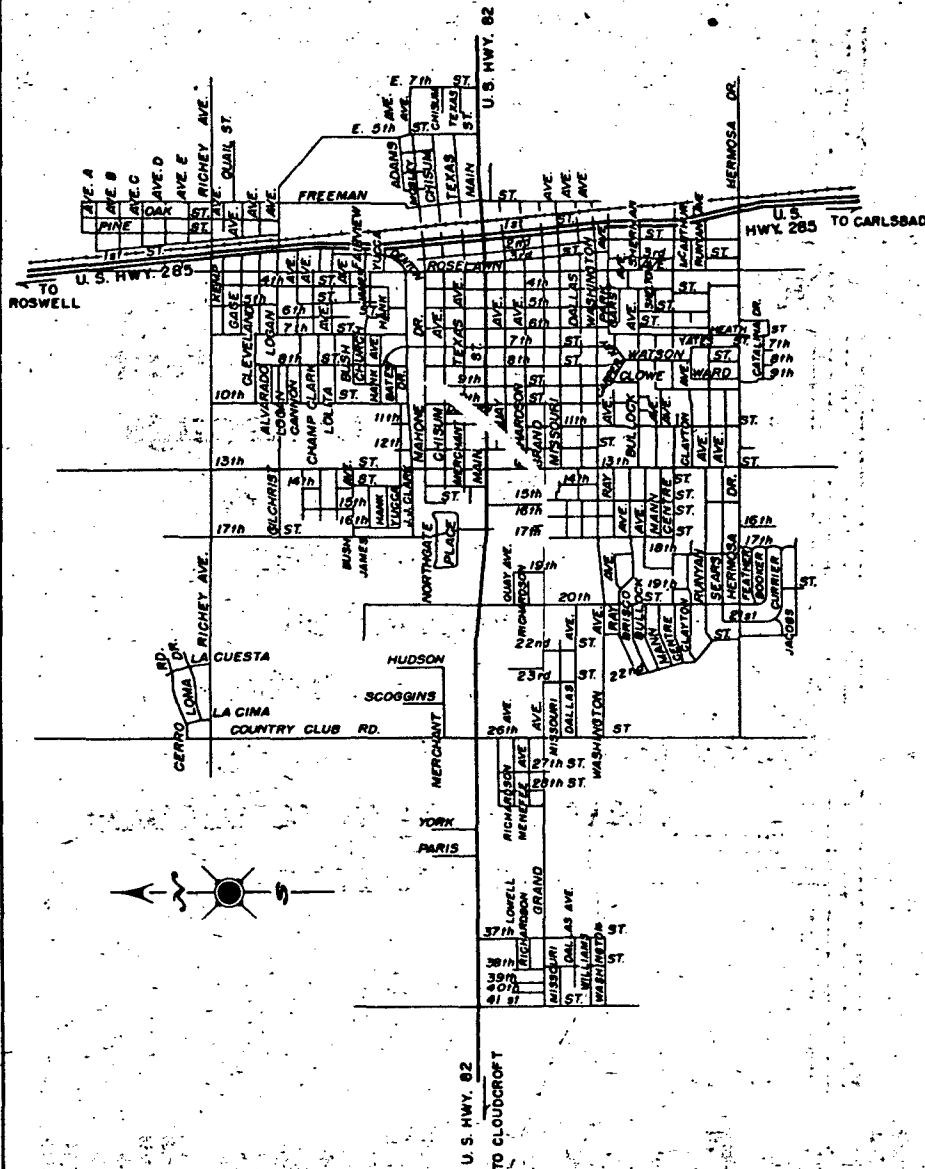
Mississippi Chemical Corporation (MNG #75), 21S, 29E, 12.4

Discharges from this potash refinery (formerly operated by the Teledyne Corporation and United States Potash Company) are suspected of contaminating a well which once produced water suitable for stock. (24) Seepage from MCC's brine disposal ponds is estimated to have migrated through the Permian Dewey Lake Redbeds a maximum distance of 277 feet towards the east-southeast. (25)

Potash Company of America (MNG #45), 20S, 30E, 4.3

The potash refinery wastes are deposited in a large natural topographic depression which is a ground water discharge zone, so it is highly unlikely that the brine is migrating out of this basin. Brine disposal is the most likely cause of the water table rising above the land surface, creating an artificial brine pond. (24) A well which produced water suitable for stock in 1948 is now inundated by this pond. (25, 28)

MAP OF ARTESIA NEW MEXICO



name and address

use this space

Hudson & Hudson Case
3892

Topo Maps of Area in
question.

Clayton Basin - 15 min
107

Laguna Gatuna - 15 min
107

February 25, 1980

To: R. L. Starnets

From: Thomas A. Parkhill

Subject: Review of Hudson & Hudson Case 3892
R-3554

I have reviewed the file on case 3892 and obtained information on water quality in the area. The area in question is located in T19S R33E of Lea County.

I would like to present parts of some of the important testimony presented at this hearing from the records.

From pages 29 and 30 of this hearing, Ralph Gray presented testimony that the land owner, Mr Mark Smith, (Sec 26) was not getting any water for domestic use from wells because of high gypsum content. Mr Smith's water was obtained from potash company supply lines. He (R. Gray) also stated that water in the area was very spotty and that water obtained from this area had a high gypsum content which made it unsuitable for domestic use.

On page 34, Ralph Gray states only water use in area is limited stock use only and many of these were abandoned.

On page 59, Mr Kellahin stated deep water sources were not widely used in this area.

The information presented by Mr Gray was hear say from Mr Mark Smith who did not testify before this hearing. Mr Gray did not offer any exhibits of water analysis from wells in the area. He did however, present a water analysis from a tank battery produced

from area oil wells. Parts from this analysis are sulfates - 2400 ppm, chloride - 9,950 ppm T.D.S. - N.D. (not determined), and sodium - 6,110 ppm.

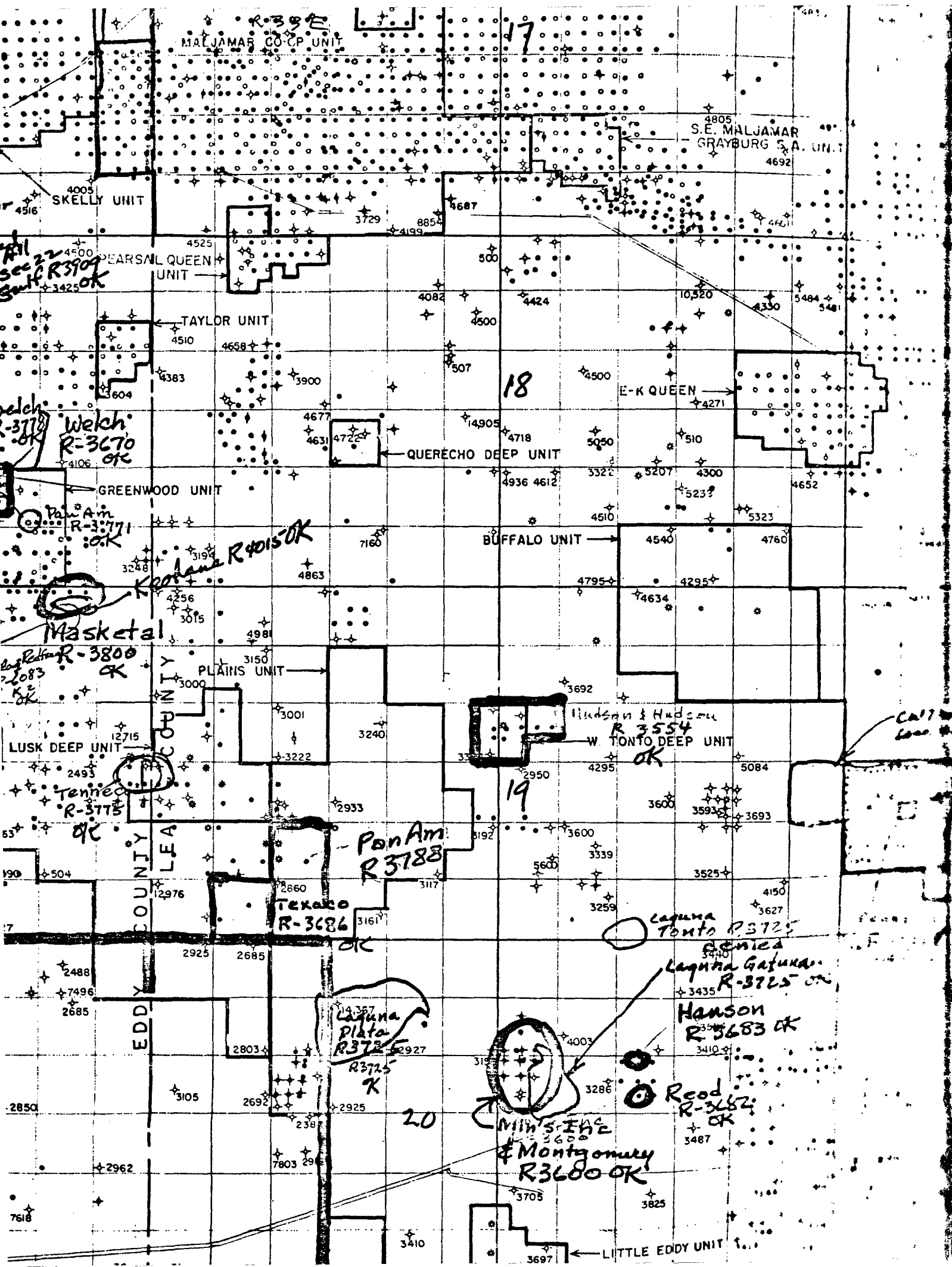
Information I gathered through research work indicates that field information from the State Engineers proves water from wells is being used for domestic and stock use. Chloride content of this water is less than 300 ppm. and most of the water comes from alluvium.

Other information from N. Mex. Bur. of Mines G.

W. Report 6 on S. Lea Co. on groundwater in T 19 S, R 34 E, Sec 9 - 114, Tr (?), depth 33 ft water analysis indicates sulfate - 1680 ppm, chloride - 560 ppm and T.D.S. - 3680 ppm.

To prevent possible groundwater contamination, we should locate and take samples for water analysis for all wells in T 33 E, R 19 S, Sec 7, 18, 19, 20, T 34 E R 19 S Sec 12, 13, 24. These analysis should be for Chlorides, Sulfides Sodium and T.D.S. The reason for this work is the lack of Groundwater analysis done in this area and the fact that none was presented during the hearing of case 3892. If we don't have the capability to do these water analysis, then we should have a lab complete the work.

The State Engineer (Roswell) lists the following wells which should be sampled: 19.33.5.12322, 19.33.17.11224, 19.33.18.133213, 19.33.18.1332234, 19.33.26.42221, and 19.33.26.422221.



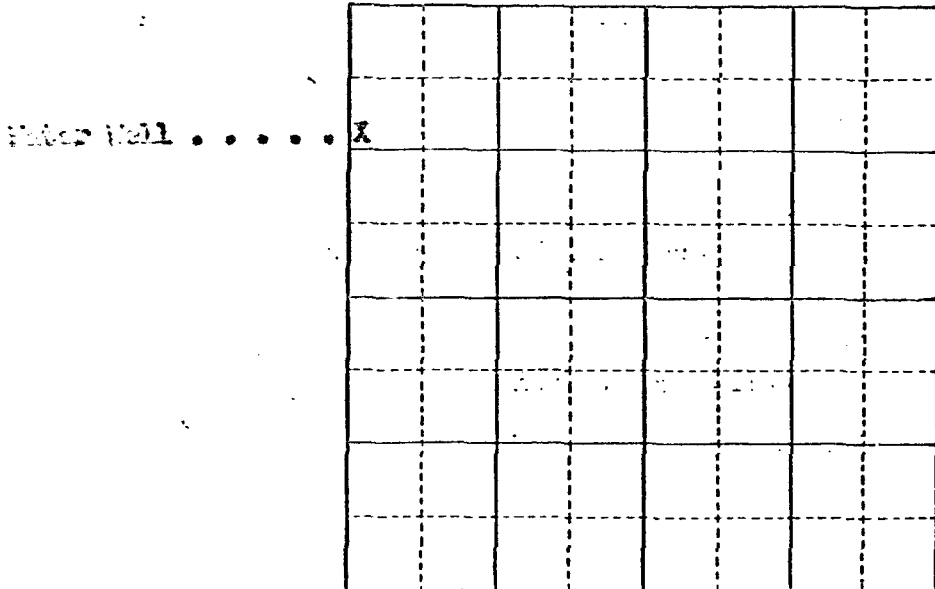
LOCATION	DATE COLLECTED	CHLORIDE FPM	CONDUCTANCE M-MHOS	TEMP DEG	WBF	BASIN FILE	REFERENCE FILE	USE	FT CLTN	CLTR	ACC DATA	CAPC SCU DATE FCE
19S 29F 25 44332	12/11/70	124	1900		TRC	CP		STK	DP	CCC		C
19S 29F 25 44332	11/01/76	94	2860	68F	TRC	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		109.0	2380.0	68.00								
19S 32F 08 22411	12/09/58	21	682		TRS	CP		STK			X	
19S 32F 08 22411	11/18/65	25	700		TRS	CP		STK	DP	SEC	*	
AVERAGES BY WELL LOCATION		23.0	691.0	.00								
19S 33F 26 42221	8/11/76	286			QAL	CP		DDM	DP	CCC	X	0279
AVERAGES BY WELL LOCATION		286.0	.0	.00								
19S 33F 26 42221	11/17/65	298	2560	57F	QAL	CP		STK	YT	SFC	*	
19S 33F 26 42221	9/25/72	280	2490		QAL	CP		DDM	DP	LSG	X	0279 U
19S 33F 26 42221	8/20/76	289	2807	66F	QAL	CP		STK	DP	SFC		
19S 33F 26 42221	10/08/76	306	2610	66F	QAL	CP		STK	YT	SFC		
AVERAGES BY WELL LOCATION		293.2	2616.7	63.00								
19S 34L 09 24231	12/09/58	560	4660		CAL	CP		STK			X	L
AVERAGES BY WELL LOCATION		560.0	4660.0	.00								
19S 34F 31 13100	11/17/65	717	4220	65F	QAL	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		717.0	4220.0	65.00								
19S 34F 31 232112	11/17/65	289	2990	66F	QAL	CP		STK	DP	SFC		
19S 34F 31 232112	9/25/72	290	2960		CAL	CP		STK	DP	LSG	X	0279 L
19S 34F 31 232112	8/20/76	298	2989	67F	QAL	CP		STK	DP	SFC		
19S 34F 31 232112	10/08/76	297	2985	67F	CAL	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		293.5	2981.0	66.66								
19S 35F 05 121224	8/31/65	20	495		TGG	L00493		IRR	DP	SFC		
19S 35F 05 121224	8/18/71	90	932	66F	TGG	L00493		IRR	DP	SEC		
AVERAGES BY WELL LOCATION		55.0	713.5	66.00								
19S 25F 13 422222	8/31/65	25	490	68F	TGG	L04563		IRR	DP	SFC		
19S 25F 13 422222	5/19/77	46	681	66F	TGG	L04563		IRR	DP	SEC		
AVERAGES BY WELL LOCATION		35.5	585.5	67.00								
19S 25F 15 114213	8/31/65	20	495	68F	TGG	L04763		COM	DP	SFC		
19S 25F 15 114213	9/23/71	91	702		TGG	L04763		COM	DP	SEC		
AVERAGES BY WELL LOCATION		55.5	598.5	68.00								
19S 24F 25 11243	4/09/38	31	562		TGG	L				LSG	X	PLUS L

more complete
analysis available

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) 18, Township 19-S, Range 33-E N. M. P. M.

Water Well located 522' from West Line and 2123' from North Line Section 18,
T-19-S, R-33-E, Lea County, New Mexico



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a \$1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in feet depth or acre feet of water per acre applied on the land. If used for domestic, municipal, or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest $2\frac{1}{2}$ acre subdivision. If located on unsurveyed lands, describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

REPRODUCED

These lands are not within the declared boundaries of a ground water basin and the statements have not been investigated or verified.

D. E. Gray
D. E. Gray, Engineer
Water Rights Division

February 25, 1980

To: R. L. Stamets

From: Thomas A. Parkhill

Subject: Review of Hudson & Hudson Case 3892
R-3554

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Information I gathered through research work indicates that field information from the State Engineers proves water from wells is being used for domestic and stock use. Chloride content of this water is less than 300 ppm. and most of the water comes from alluvium.

Other information from N. Mex. Bur. of Mines G.

W. Report 6 on S. Lea Co. on groundwater in T19S, R34E, Sec 9 • 114, Tr (?), depth 33ft water analysis indicates sulfate - 1680 ppm, chloride - 560 ppm and T.D.S. - 3680 ppm.

To prevent possible groundwater contamination, we should locate and take samples for water analysis for all wells in T33E, R19S, Sec 17, 18, 19, 20, T34E R19S Sec 12, 13, 24. These analysis should be for Chlorides, Sulfides Sodium and T.D.S. The reason for this work is the lack of Groundwater analysis done in this area and the fact that none was presented during the hearing of case 3892. If we don't have the capability to do these water analysis, then we should have a lab complete the work.

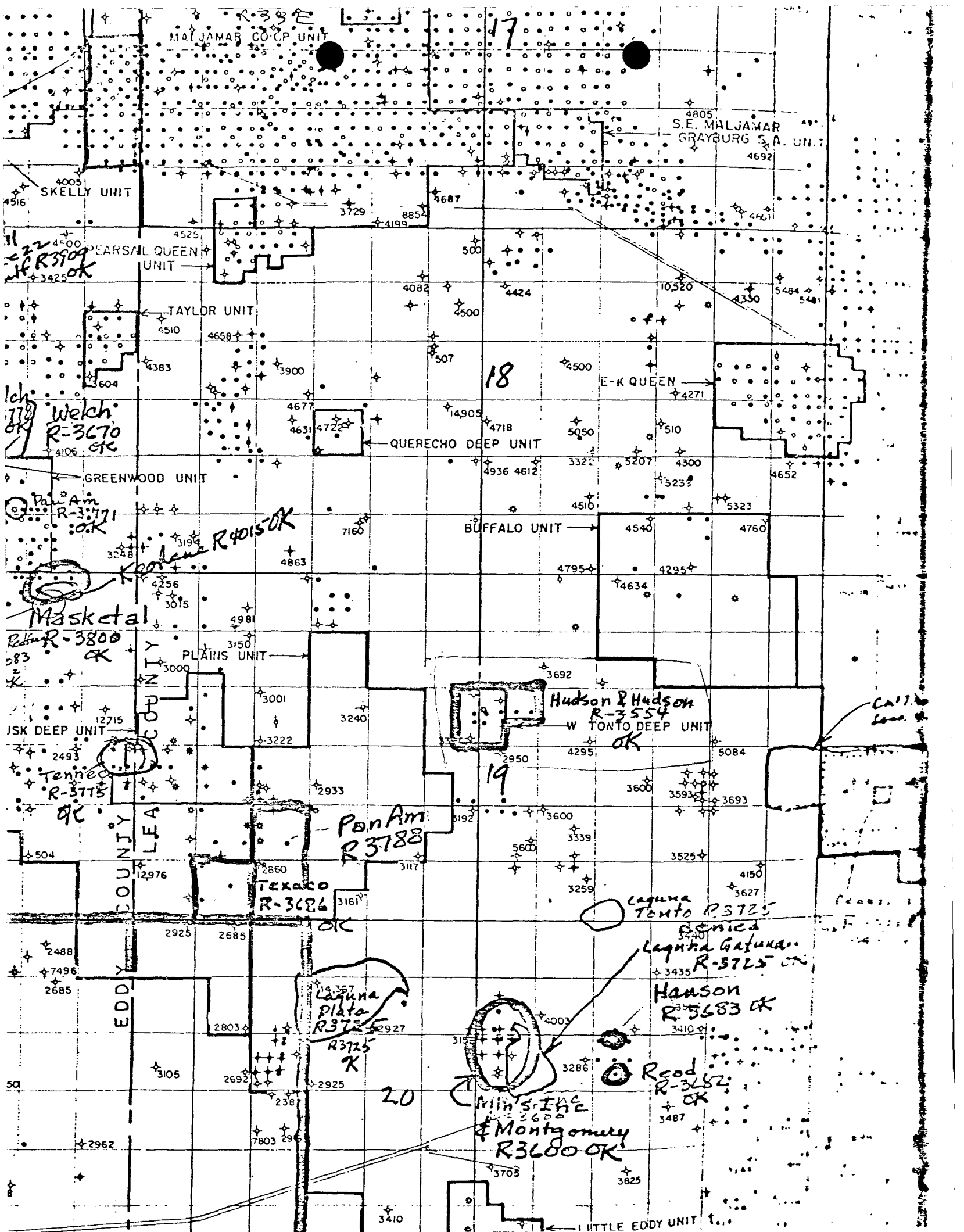
The State Engineer (Roswell) lists the following wells which should be sampled: 19.33.5.12322, 19.33.17.11224, 19.33.18.133213, 19.33.18.1332234, 19.33.26.42221, and 19.33.26.422221.

LISTING BY WELL LOCATION

SOURCES

WELL DATA

LOCATION	DATE COLLECTED	CHLORIDE FPM	CONDUCTANCE M-MHOS	TEMP DEG	WBF	WELL FILE	REFERENCE FILE	USE	FT CLTN	CLTR	ACC DATA	CAPC SCU DATE FCE
19S 29F 25 44232	12/11/70	124	1900		TRC	CP		STK	DP	CCC		E
19S 29F 25 44332	11/01/76	94	2860	68F	TRC	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		109.0	2380.0	68.00								
19S 32F 06 22411	12/09/58	21	682		TRS	CP		STK			X	
19S 32F 06 22411	11/18/65	25	700		TRS	CP		STK	DP	SEC	*	
AVERAGES BY WELL LOCATION		23.0	691.0	.00								
19S 33F 26 42221	8/11/76	286			QAL	CP		DDM	DP	CCC	X	0279
AVERAGES BY WELL LOCATION		286.0	.0	.00								
19S 33F 26 422221	11/17/65	298	2560	57F	QAL	CP		STK	YT	SFC	*	
19S 33F 26 422221	9/25/72	280	2490		QAL	CP		DDM	DP	LSG	X	0279 U
19S 33F 26 422221	8/20/76	289	2807	66F	QAL	CP		STK	DP	SFC		
19S 33F 26 422221	10/08/76	306	2610	66F	QAL	CP		STK	YT	SFC		
AVERAGES BY WELL LOCATION		293.2	2616.7	63.00								
19S 34L 09 24221	12/09/58	560	4660		CAL	CP		STK			X	L
AVERAGES BY WELL LOCATION		560.0	4660.0	.00								
19S 34F 31 13100	11/17/65	717	4220	65F	QAL	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		717.0	4220.0	65.00								
19S 34F 31 232112	11/17/65	289	2990	66F	QAL	CP		STK	DP	SFC		
19S 34F 31 232112	9/25/72	290	2960		CAL	CP		STK	DP	LSG	X	0279 L
19S 34F 31 232112	8/20/76	298	2989	67F	QAL	CP		STK	DP	SFC		
19S 34F 31 232112	10/08/76	297	2985	67F	CAL	CP		STK	DP	SEC		
AVERAGES BY WELL LOCATION		293.5	2981.0	66.66								
19S 35F 05 121224	8/31/65	20	495		TOG	L00493		IRR	DP	SFC		
19S 35F 05 121224	8/18/71	90	932	66F	TOG	L00493		IRR	DP	SEC		
AVERAGES BY WELL LOCATION		55.0	713.5	66.00								
19S 35F 13 422222	8/31/65	25	490	68F	TOG	L04563		IRR	DP	SFC		
19S 35F 13 422222	5/19/77	46	681	66F	TOG	L04563		IRR	DP	SEC		
AVERAGES BY WELL LOCATION		35.5	585.5	67.00								
19S 35F 15 114213	8/31/65	20	495	68F	TOG	L04763		CUM	DP	SFC		
19S 35F 15 114213	9/23/71	91	702		TOG	L04763		CUM	DP	SEC		
AVERAGES BY WELL LOCATION		55.5	598.5	68.00								
19S 36F 25 11243	4/09/38	31	562		TOG	L				LSG	X	PLUG L



MALJAMAR CO. P. UNIT

17

4805
S.E. MALJAMAR
GRAYBURG S.A. UNIT
4692

4005
SKELLY UNIT

4516
4500
PEARSON QUEEN UNIT
R-3704 OK
3425 OK

TAYLOR UNIT

Welch
R-3670
OK

GREENWOOD UNIT

Pan Am
R-3771
OK

Masketal
R-3800
OK

JSK DEEP UNIT

Tennie
R-3775
OK

EDDY COUNTY
LEA COUNTY

PLAINS UNIT

Pon Am
R-3788

TEXACO
R-3684

Laguna
Plata
R-3725
OK

Hudson & Hudson
R-3554
W. TONTO DEEP UNIT
OK

19

Laguna
Tonto R-3725
Hanson
R-5683 OK

Reed
R-3682
OK

Montgomery
R-3600 OK

20

LITTLE EDDY UNIT

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☒ Other _____Date 11/18 19 65 Record by MansonLOCATION: County Lea Map 107.40OWNER Pan American Pet.DRILLER Mumel Abbott Completed 10/27 19 59TOPO SITUATION USNST Elev 3635DEPTH 870 ft ☒ Rept ☐ Meas Use OWDCASING 7 in to _____ ft Log _____PUMP: Type piston Make _____Ser.no./model _____ Size of dischg 4 in.PRIME MOVER: Make none HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 232.54 ft rept 3/15 19 68 above TC
meas below_____ which is 1.5 ft above LS
below

PERMANENT RP is _____

which is _____ ft above described MP and _____ ft above LS
below belowREMARKS Well is located 522' FNL and 2120' FNLAQUIFER(S): RSWell No. _____ on Photo _____ DPN 25-12193File No CP-71 Loc. No. 19.33.18.1332234

Remarks cont. of section 18. This is the east
well of 2 wells which are about 150' apart.
a 100 barrel storage tank is located 30'
west of well. Well is located about 175' west
and 30' north of Hudson oil well which is 2180 FWL
and 690 FWL of section 18. ✓

SKETCH:

N

INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below
	1st	2nd	3rd	LS
Date <u>Mar 15, 1968</u>	<u>240.00</u>	<u>241.00</u>		<u>232.54</u>
Hour <u>11:45</u> ^{AM} PM Obs <u>BH-H.P.</u>	<u>7.45</u>	<u>8.46</u>		<u>1.50</u>
Not POA (X) POA ()	<u>232.55</u>	<u>232.54</u>		<u>231.04</u>

W L meas after pump shut off _____ min. Pumping W L ()

Remarks _____

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☒ Other _____Date 11/18 19 35 Record by MasonLOCATION: County Lea Map 107.4.0OWNER Pan American Pet.DRILLER _____ Completed _____ 19 37TOPO SITUATION USGS Elev 3635DEPTH 850 ft ☒ Rept ☐ Meas Use OWDCASING 8 5/8 in to _____ ft Log _____PUMP: Type piston Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make None HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☒ Pump JackMake Lufkin Ser.no. _____ ☐ VHSWATER LEVEL: _____ ft rept _____ 19 _____ above
meas _____ below_____ which is _____ ft above
below LS

PERMANENT RP is _____

which is _____ ft above
below described MP and _____ ft above
below LSREMARKS This is the west well of 2 wells whichAQUIFER(S): FSWell No. _____ on Photo _____ DPN 25-File No CP Loc. No. 19.33.18.133213

Remarks cont. are about 150' apart. Well is located
100' west of a 100 barrel storage tank.
No access for tape.

SKETCH:

N



INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below
	1st	2nd	3rd	LS
Date _____, 19 ____				
Hour _____ AM PM Obs _____				
Not POA () POA ()				

W L meas after pump shut off _____ min. Pumping W L ()

Remarks _____

FE-1

State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other _____
Date 11/18 19 65 Record by MarrisonLOCATION: County Lea Map 107.4.0

OWNER _____

DRILLER _____ Completed _____ 19 _____

TOPO SITUATION sand dune USGST SPOT Elev 3713DEPTH 700 ft ☒ Rept ☐ Meas Use StockCASING 8 7/8 in to _____ ft Log _____PUMP: Type Piston Make _____Ser.no./model _____ Size of dischg 2 in.PRIME MOVER: Make Armstrong HP _____Ser.no. Wooden Tower Power/Fuel WoodPUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 42369 ft rept 3/15 19 68 above Top
of truck wheel below_____ which is 2.5 ft above below LS

PERMANENT RP is _____

which is _____ ft above described MP and _____ ft above LS
belowREMARKS Three large steel storage tanks areAQUIFER(S) RSWell No. _____ on Photo _____ DPN 25-12191File No CP- Loc. No. 19.33.5.12322

Remarks cont. located south of well.

SKETCH:

N

INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date <u>Mar 15</u> , 19 <u>68</u>	441.00	440.00	441.00	433.69
Hour <u>2:00</u> AM PM Obs <u>BA-HP</u>	6.13	6.11	7.31	2.50
Not POA () POA (X)	434.87	433.89	433.69	431.19

W L meas after pump shut off 42 min., Pumping W L ()

Remarks

FE-1

State of New Mexico

State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☒ Other USHSDate 7/1 19 54 Record by NicholsonLOCATION: County Lea Map 107.4.0OWNER Mark Smith (Headquarter)DRILLER _____ Completed _____ 19 54TOPO SITUATION _____ USHS Elev 3608DEPTH 101 ft ☒ Rept ☐ Meas Use DOM-STK

CASING _____ in to _____ ft Log _____

PUMP: Type piston Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. Wooden Tower Power/Fuel WindPUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 94.21 ft rept 7/1 19 54 above TC
meas below_____ which is 1.4 ft above below LS

PERMANENT RP is _____

which is _____ ft above described MP and _____ ft above below LS

REMARKS This is the east well of 2 windmills.AQUIFER (S) PalWell No. _____ on Photo _____ DPN 25-12/95File No CP Loc. No. 19.33.26.422221

Remarks cont. Wellie located about 200' north of
ranch house. Well discharges into a 500
gallon elevated wooden tank on west side of
well.

11/17/65 CHM - Water sample collected. /

9/25/72 FPL - Water sample collected.

SKETCH:

N



INITIAL WATER- LEVEL MEASUREMENT		DEPTH TO WATER			
		Below MP			Below LS
		1st	2nd	3rd	
Date <u>July</u> <u>1</u> , 19 <u>54</u>		<u>100.00</u>			<u>94.21</u>
Hour <u>1</u> AM Obs <u>AN</u>	PM	<u>5.79</u>			<u>1.40</u>
Not POA () POA (X)		<u>94.21</u>	<u>/</u>		<u>92.81</u>

W L meas after pump shut off _____ min. Pumping W L (X)

Remarks Well pumping /

WELL SCHEDULE

Source of data: Obser ☒ Owner ☒ Other _____
 Date 11/17 1965 Record by Marson

LOCATION: County Lea Map 107.4.0

OWNER Mark Smith. (Headquarters)

DRILLER _____ Completed _____ 1967

TOPO SITUATION _____ 21545T Elev 3608

DEPTH 100 ft ☒ Rept ☐ Meas Use Sticks

CASING _____ in to _____ ft Log _____

PUMP: Type piston Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make Almotive HP _____

Ser.no. _____ Power/Fuel Wind

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump Jack

Make _____ Ser.no. _____ ☐ VHS

WATER LEVEL: 90.48 ft rept 3/14 1968 above LS
meas below

_____ which is 0.0 ft above below LS

PERMANENT RP is _____

which is _____ ft above below described MP and _____ ft above below LS

REMARKS This is the west well of 2 wells. Well

AQUIFER(S): Gal

Well No. _____ on Photo _____ DPN 25-12194

File No CP Loc. No. 19.33.26.42221

Remarks cont. discharge into 2 steel stock tanks
which are in coral. Well is about 150' NW
of ranch house.

SKETCH:

N

INITIAL WATER- LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below
	1st	2nd	3rd	LS
Date <u>Mar 14, 1968</u>	<u>96.00</u>	<u>92.00</u>		<u>90.48</u>
Hour <u>10:15</u> ^{AM} PM Obs <u>BH-HP</u>	<u>5.52</u>	<u>1.50</u>		<u>- 0 -</u>
Not POA (X) POA ()	<u>90.48</u>	<u>90.50</u>		<u>90.48</u>

W L meas after pump shut off _____ min. Pumping W L ()

Remarks _____

FE-1

State of New Mexico

State Engineer

WELL SCHEDULE

Source of data: Obser ☒ Owner ☐ Other ☐Date 12/8 19 65 Record by MasonLOCATION: County Lea Map 107.4.0'

OWNER _____

DRILLER _____ Completed _____ 19 _____

TOPO SITUATION sand dunes USGS Elev 3650DEPTH 131 ft ☐ Rept ☒ Meas Use NotCASING 7 in to _____ ft Log _____PUMP: Type None Make _____

Ser.no./model _____ Size of dischg _____ in.

PRIME MOVER: Make _____ HP _____

Ser.no. _____ Power/Fuel _____

PUMP DRIVE: ☐ Gear Head ☐ Belt Head ☐ Pump JackMake _____ Ser.no. _____ ☐ VHSWATER LEVEL: 121.10 ft rept 12/8 19 65 above Top
of wooden dam meas below_____ which is 2.70 ft above below LSPERMANENT RP is TCwhich is 0.28 ft above below described MP and 2.42 ft above below LSREMARKS Well is shown on USGS topo map.AQUIFER(S): Gal ✓Well No. _____ on Photo _____ DPN 25-12192File No CP- Loc. No. 19.33.17.11224

Remarks _____



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:

P. O. BOX 1717
ROSWELL, NEW MEXICO
88201

February 8, 1980

Mr. A. Jerry Sexton
Oil Conservation Comm.
P. O. Box 1980
Hobbs, N.M. 88240

Dear Jerry:

In response to your telephone call regarding data on groundwater in Township 19 South, Range 33 East I am sending you copies of the schedules for wells which we have scheduled and a map showing the elevation of the base of the alluvium which has not been contoured. The direction of groundwater movement is from the northeast to the southwest in this township and the gradient on the top of the Triassic appears to be about the same direction.

The quality of water in the alluvium is fairly good. Samples which we have data on indicate a chloride content of less than 300 PPM.

It is my opinion that disposal of brine in unlined pits in this area will eventually contaminate the fresh water. If I can be of further assistance in this matter please advise.

Very truly yours,

James I. Wright
James I. Wright
Field Engineer

JIW:ffc
cc: Santa Fe

P.S. There is a report on southern Lea County by Nicholson which might be helpful. I think John has a copy, but if he doesn't you can probably obtain one from the School of Mines at Socorro.

esmeque

bnod Jhiedllo

notion Xa

James Wright
Roswell

841497 ^{and} ^{Ton}
38

R. 33 E.

T. 19 S.

T. 20 S.

7 fpm

NM OIL CONSERVATION DEPT

WELL LOG # Federal 19 No. 1

REMOVED FROM FILE

IR-0164 . **BOX**

NUMBER 43

RETURNED TO CUSTOMER

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <u>Abandon</u> <input checked="" type="checkbox"/>		8. FARM OR LEASE NAME	
2. NAME OF OPERATOR		Amoco Production Company		9. WELL NO.	
3. ADDRESS OF OPERATOR		P. O. Drawer A, Levelland, TX 79336		4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*		At surface 2310' FSL X 1980' FEL, Sec 13, (Unit J, NW 1/4, SE 1/4)		10. FIELD AND POOL, OR WILDCAT	
At top prod. interval reported below				West Tonto Yates 7 Rivers	
At total depth				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
14. PERMIT NO.		DATE ISSUED		13-19-32	
15. DATE SPUDDED		16. DATE T.D. REACHED		12. COUNTY OR PARISH	
9-3-78		9-10-78		Lea	
17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, REB, RT, GR, ETC.)*		13. STATE	
		3628.5 GR		NM	
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		23. INTERVALS DRILLED BY	
3350'				ROTARY TOOLS	
		22. IF MULTIPLE COMPL., HOW MANY*		CABLE TOOLS	
				10-3350'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*				25. WAS DIRECTIONAL SURVEY MADE	
				No	
26. TYPE ELECTRIC AND OTHER LOGS RUN				27. WAS WELL CORED	
Compensated Neutron Formation - Oval Laterlog Micro SFL				No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	
8-5/8"	24#	345'	12-1/4"	225 sx Class G	
				AMOUNT PULLED	
				1978	
29. LINER RECORD				30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE
					DEPTH SET (MD)
					PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
				DEPTH INTERVAL (MD)	
				AMOUNT AND KIND OF MATERIAL USED	
33.* PRODUCTION					
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)
					Abandon
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.
WATER—BBL.	CAS-OIL RATIO				
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS					
See Line #26; Inclination Report					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED		TITLE		DATE	
		Assist. Admin. Analyst		9-18-78	

*** (See Instructions and Spaces for Additional Data on Reverse Side)**

0+4 - USGS - H
1 - Div
1 - Susp

1 - L. P. Thompson
P. O. Box 460
Hobbs, NM 88240

1 - F. R. Conley
Production Research
P. O. Box 1267
Ponca City, OK 74601

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), tion and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attach should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the production interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequate to identify the well and the interval, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Rustler	1290'	
				Yates	2990'	
				Seven Rivers	3180'	

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION, OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____ b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		7. UNIT AGREEMENT NAME 		
2. NAME OF OPERATOR Amoco Production Company		8. FARM OR LEASE NAME Nellis Federal A Leasing		
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, NM 88240		9. WELL NO. 1		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FNL x 660' FWL, Sec. 8 (Unit E, SW/4 NW/4) At top prod. interval reported below At total depth		10. FIELD AND POOL, OR WILDCAT Und. Bone Springs		
14. PERMIT NO. 		DATE ISSUED 		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 8-19-33
15. DATE SPUDDED 12-5-79		16. DATE T.D. REACHED 	17. DATE COMPL. (Ready to prod.) 1-14-80	18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3667.8 GL
20. TOTAL DEPTH, MD & TVD 13700'	21. PLUG, BACK T.D., MD & TVD 13115'	22. IF MULTIPLE COMPL., HOW MANY* 		23. INTERVALS DRILLED BY
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 10328'-10364' Bone Springs				25. WAS DIRECTIONAL SURVEY MADE
26. TYPE ELECTRIC AND OTHER LOGS RUN 				27. WAS WELL CORED
28. CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED
Existing Casing Not Altered				
29. LINER RECORD				
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
30. TUBING RECORD				
SIZE	DEPTH SET (MD)		PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number) 10328'-10346' W/2 JSPE 10354'-10364'			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
			10328'-10364'	4610 gal 20% DS-30
33.* PRODUCTION				
DATE FIRST PRODUCTION 12-12-79		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping		WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 1-14-80	HOURS TESTED 24	CHOKE SIZE 	PROD'N. FOR TEST PERIOD 	GAS—MCF. 13
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE	WATER—BBL. 0
				OIL GRAVITY-API (CORR.) 194
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold			TEST WITNESSED BY 	
35. LIST OF ATTACHMENTS 				

***(See Instructions and Spaces for Additional Data on Reverse Side)**

0+4 USGS-H, 1-Hou, 1-Susp, 1-BD, 1-Superior, 1-Conoco

INSTRUCTIONS

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Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Bone Springs	10328'	10364'	Oil Producing

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Rustler	1445'	
Yates	3042'	
Seven Rivers	3542'	
Delaware	5230'	
1st Bone Springs	7600'	
2nd Bone Springs	8850'	
3rd Bone Springs	10370'	
Wolfcamp	10896'	
Strawn	12110'	
Atoka	12557'	
Morrow	13026'	

RECEIVED
 MAY 29 1980
 OIL CONSERVATION DIV.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

LC - 064790

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal AC

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Und. Strawn

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

18-19-33

12. COUNTY OR
PARISH
Lea13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:

OIL
WELL ☐GAS
WELL ☒DRY ☐

Other

b. TYPE OF COMPLETION:

NEW
WELL ☒WORK
OVER ☐DEEP-
EN ☐PLUG
BACK ☐DIFF.
RESVR. ☐

Other

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P. O. Box 68, Hobbs, NM 88240

U. S. GEOLOGICAL SURVEY

HOBBS, NEW MEXICO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FNL X 1980' FNL, Sec. 18

At top prod. interval reported below

Unit B, SW 1/4 NE 1/4

At total depth

14. PERMIT NO.

DATE ISSUED

MAR 14 1980

15. DATE SPUDDED

9-24-79

16. DATE T.D. REACHED

12-3-79

17. DATE COMPL. (Ready to prod.)

3-10-80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3644.3 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

13670'

21. PLUG, BACK T.D., MD & TVD

13065'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

0-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

12360'-12373'

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Comp Neutron Form Density; Dual Laterolog Micro SFL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	455'	17-1/2"	450 SX Class C	53 SX
9-5/8	40#	5002'	12-1/4"	2350 SX Lite; 200 Class C	310 SX
5-1/2	17# 20# 23#	13670'	8-3/4"	1800 SX Lite; 825 Class H	TCMT 280'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	12284	12231'

31. PERFORATION RECORD (Interval, size and number)

12360'-12373' w/ 2 JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
2-19-80		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3-10-80	11	15/64	→	125	2039	43	16360
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2900		→	273	4450	95		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs mailed 12-18-79

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Bob Davis

TITLE

Asst. Admin. Analyst

DATE

3-12-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

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Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Strawn	12360'	12373'	Gas & Condensate <i>Estimate Tops</i> <i>Yates - 2640'</i> <i>Queen - 4200'</i> <i>Delaware - 5580'</i>

OIL CONSERVATION DIV.

MAY 25 1980

RECEIVED

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	5975'	
First Bone Springs	7650'	
Second Bone Springs	8822'	
Third Bone Springs	10370'	
Wolfcamp	10896'	
Strawn	12058'	
Atoka	12572'	
Morrow	13028'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COPY TO O.G.C.

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR Amoco Production Company						7. UNIT AGREEMENT NAME Bondurant Federal	
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, NM 88240						9. WELL NO. 5	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 1980' FEL Sec. 12 (Unit J, NW/4 SE/4) At top prod. interval reported below At total depth						10. FIELD AND POOL, OR WILDCAT West Tonto Penn	
14. PERMIT NO.						13. STATE NM	
15. DATE SPUDDED 3-18-79		16. DATE T.D. REACHED 5-4-79		17. DATE COMPL. (Ready to prod.) 6-5-79		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3674.5 RDB	
20. TOTAL DEPTH, MD & TVD 13,689'		21. PLUG, BACK T.D., MD & TVD 13,640'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0-TD	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 13,326'-13,341' Morrow						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro SFL, Comp Neutron Form Density						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
13-3/8		48#		445'		17-1/2	
9-5/8		36#		5002'		12-1/4	
5-1/2		17# & 20#		13,688'		8-3/4	
CEMENTING RECORD		AMOUNT PULLED					
450 SX Class C							
2300 SX Howcolite; 200 SX Class C							
1800 SX Trinity Lite; 780 SX Class H							
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
2-3/8"		13178'					
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2-3/8"		13178'					
31. PERFORATION RECORD (Interval, size and number)							
13,326'-13,341' w/4 JSPF							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
33. PRODUCTION							
DATE FIRST PRODUCTION 5-24-79		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 6-5-79		HOURS TESTED 24		CHOKE SIZE 22/64		PROD'N. FOR TEST PERIOD 2	
OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO	
2440		0		1,220,000			
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL GRAVITY-API (CORR.)	
2		2440		0			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Logs mailed 4-6-79							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Ray Cox		TITLE Administrative Supervisor				DATE 6-16-79	

*(See Instructions and Spaces for Additional Data on Reverse Side)

0+5 - USGS-H, 1 - Hou; 1 - Susp; 1 - BD

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Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

O.C.D. HOBBBS, OFFICE
JUL 4 1979
RECEIVED

RECEIVED
JUL 4 1979
O.C.D. HOBBBS, OFFICE

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH, INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Morrow	13,326	13,341	Gas
			Estimated tops Rustler - 1510' Queen - 4140' Delaware - 5530'

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Bone Springs	7520'	
Wolfcamp	10682'	
Strawn	12077'	
Atoka	12426'	
Middle Morrow	12871'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other
instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

NAME OF OPERATOR

Inexco Oil Company

ADDRESS OF OPERATOR

1100 Milam Bldg., Suite 1900, Houston, TX 77002

LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1980' FNL and 660' FEL

At top prod. interval reported below SE NE 7-19S-33E

At total depth

SE NE 7-19S-33-E

14. PERMIT NO.

DATE ISSUED

U. S. GEOLOGICAL SURVEY

NEW MEXICO

5. LEASE DESIGNATION AND SERIAL NO.

NM 2843

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

West Tonto

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA

7-19S-33E

12. COUNTY OR PARISH

13. STATE

LEA

New Mexico

1. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

2-19-77

5-9-77

6-10-77

3665 GR

3689

0. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

13,647

13,347

XXX

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

Morrow 13234-13324

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

Dual Laterolog, Density Sonolog, GR Density Neutron

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	510	17 1/2	510 SX	None
8 5/8	24	5109	11	2410 SX	None
5 1/2	17	13647	7 7/8	575 SX	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	13110	13110

31. PERFORATION RECORD (Interval, size and number)

13,320-324 2 SPF

13,288-295 2 SPF

13,234-258 2 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6-1-77		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-1-77	5	24/64	→	32	933	0	29156
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2100	0	→	154	4,480	0	40	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented for test

TEST WITNESSED BY

Pat Adams

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Marion Tebbbs TITLE Production EngineerDATE 6-3-77

Marion Tebbbs

*(See Instructions and Spaces for Additional Data on Reverse Side)

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37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
	3100	3100	Salt & anhydrite
		3600	Anhydrite
		5700	Dolomite & Sand
		5900	Limestone
		7600	Sand & Shale
		8800	Limestone & Shale
		10400	Limestone, Sand, & Shale
		10860	Sand & Limestone
		11030	Limestone
		12100	Shale & Limestone
		12420	Limestone
		13100	Limestone & Shale
		13647	Sand, Limestone, & Shale
		TD	

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Bone Spring	7620	7620
Wolfcamp	10865	10865
Strawn	12130	12130
Atoka	12421	12421
Morrow "B"	13188	13188

Form 9531
May 1963UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or to back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Inexco Oil Company

3. ADDRESS OF OPERATOR

1100 Milam Bldg., Suite 1900, Houston, Texas 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980' FNL & 660' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3659, 4

NM 2843-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

SRM. 1167 Dated 12/1/76

8. FARM OR LEASE NAME

Federal Com. 7

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

West Tonto Penn

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 7 T-19S, R-33E

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) opening well to sales ☒(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This is to advise that the subject well was put on stream May 2,
1979 producing 3,000 MCFD.OIL CONSERVATION DIVISION
SANTA FE

RECEIVED

MAY 14 1979

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

A. K. Gideons

TITLE

Chief Clerk

DATE

5/8/79

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

MAY 14 1979

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

*See Instructions on Reverse Side

Producing gas well

AMENDED

NE MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

27 107

INEXCO OIL COMPANY			Federal		1
Section	Township	Range	County		
H	7	19 South	33 East Lea		

Actual Well Location of Well:

1980 feet from the north line and 660 feet from the east line

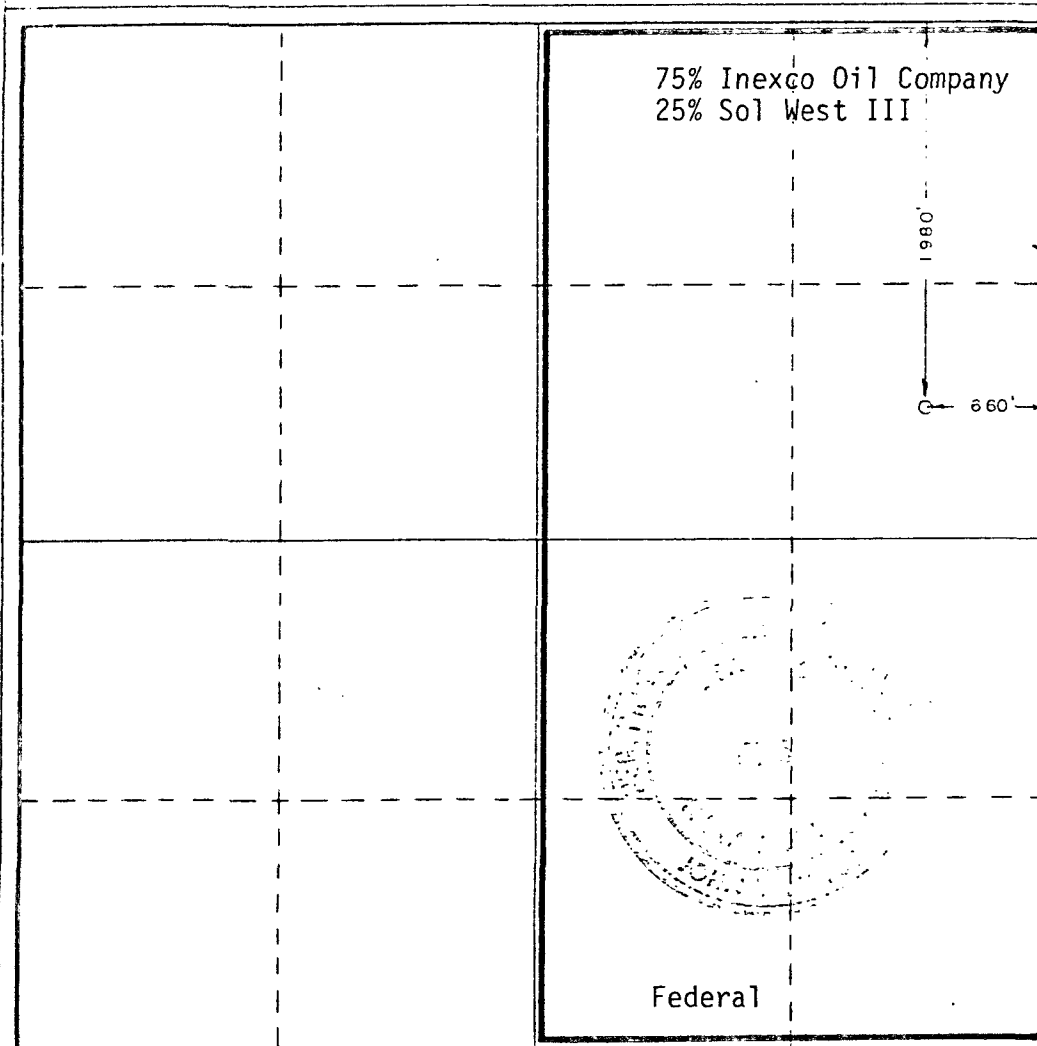
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage
3665.2	Morrow	West Tonto Pennsylvanian	320

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Ferry W. Ellstrom
Ferry W. Ellstrom

Position

Production Superintendent

Company

Inexco Oil Company

Date

October 17, 1977

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Jan. 14, 1977

Registered Professional Engineer
and/or Land Surveyor

John W. Wacht
Certificate No.

676

Scale: 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

Producing gas well

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section.

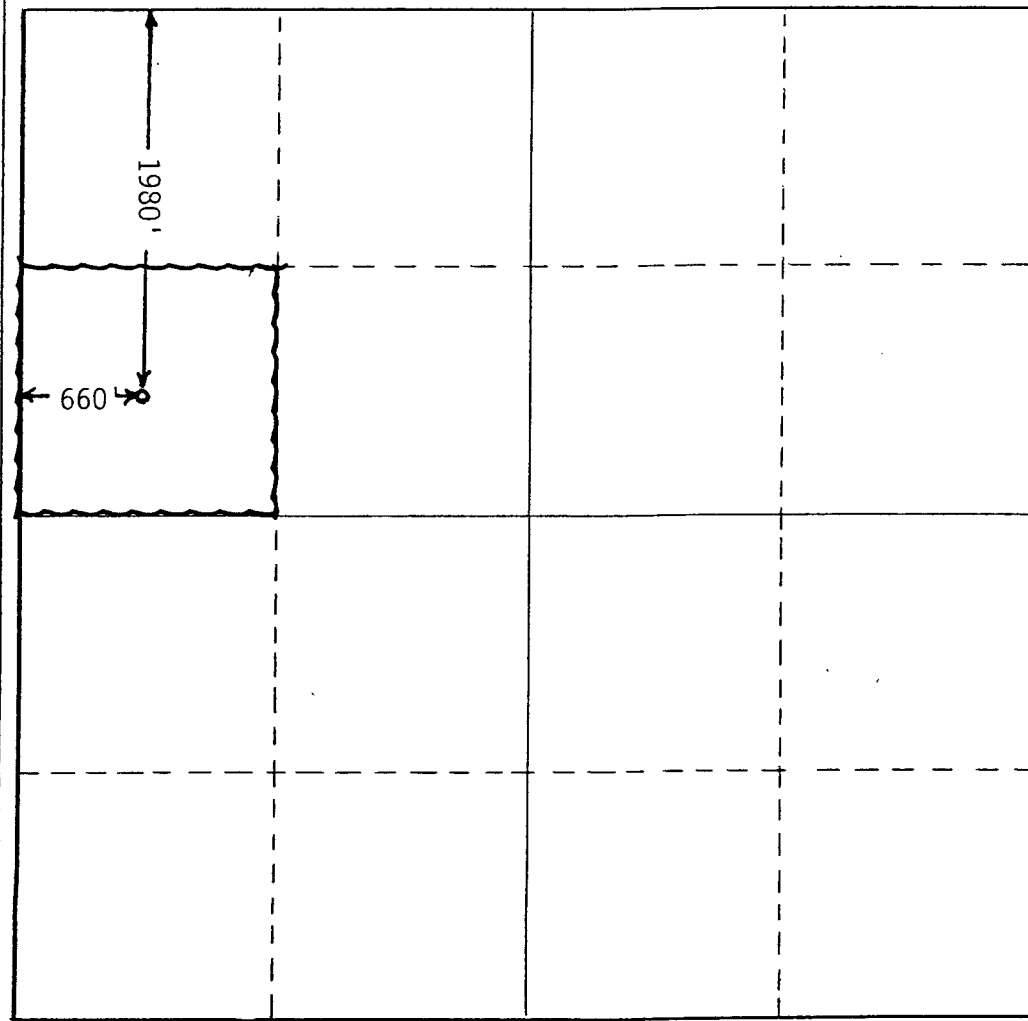
Operator Amoco Production Company			Lease Nellis Federal A <i>Federal</i>		Well No. 1
Unit Letter E	Section 8	Township 19 South	Range 33 East	County Lea	
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the West line					
Ground Level Elev. 3667.8	Producing Formation Bone Springs		Pool Und. Bone Springs	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

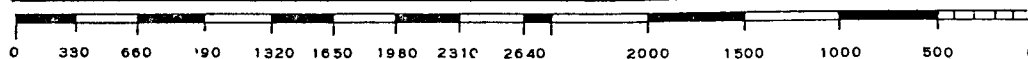
Name *Bob Davis*
Position
Administrative Analyst
Company
Amoco Production Company
Date
April 10, 1980

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



Producing gas well

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

134 677035

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USA Culbertson-Irwin

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT
wildcat11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

8-19-33 MEM

1. OIL ☐ WELL ☐ GAS ☐ WELL ☐ OTHER ☒ **Temporarily Abandoned Drilling**2. NAME OF OPERATOR
Pan American Petroleum Corporation3. ADDRESS OF OPERATOR
Box 68 - Hobbs, New Mexico - 832404. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1990' FSL X 660' FHL Sec. 8, (Unit L, NW/4 SW/4)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3670' FDB

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☒ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In accordance with Form 9-331 submitted 3-18-64, plugging and abandonment of this well was completed on 4-4-64. Work done:

Spotted cement plugs

100 sx at 3100' - 3000'

100 sx at 1400' - 1300'

25 sx at 315' - 290'

10 sx at Surface and erected P X A marker

Made final cleanup of well location and restored ground to its natural contour.

18. I hereby certify that the foregoing is true and correct

SIGNED Y. E. STALEY Original Signed byTITLE Area SuperintendentDATE 4-22-64

(This space for Federal or State office use)

APPROVED

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:TITLE _____
JUL 23 1964

DATE _____

J. L. GORDON

*See Instructions on Reverse Side ENGINEER

P. 8A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. NM-0481695	
2. NAME OF OPERATOR Gulf Oil Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Box 670, Hobbs, New Mexico 88240		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL & 330' FWL, Section 17, 19-S, 33-E		8. FARM OR LEASE NAME Walton Federal	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3636' GL		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 17, 19-S, 33-E	
		12. COUNTY OR PARISH Lea	
		13. STATE New Mexico	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐**Plugged and abandoned**

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

3500' TD.

Reached TD of 7-7/8" hole at 3500' at 1:30 AM, January 4, 1974. No commercial production indicated. Obtained permission from Mr. Brown with USGS in Hobbs and plugged and abandoned as follows: Spotted 50 sack Class C neat cement plug No. 1 from 3220' to 3320', across 7-Rivers; 60 sack cement plug No. 2 from 2900' to 3000', below base of salt at 2890'; 60 sack cement plug No. 3 from 1350' to 1450', above top of salt at 1465'; 50 sack cement plug No. 4 from 200' to 300', across 8-5/8" shoe at 257' and 20 sack cement plug No. 5 from 50' to surface. Installed dry hole marker. Will advise when location is ready for inspection.

18. I hereby certify that the foregoing is true and correct

SIGNED

K. J. Breysa

TITLE

Area Engineer

DATE

January 7, 1974

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APR 4 1974
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions on Reverse Side

P. & A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LCO 64730	
2. NAME OF OPERATOR J. H. C. Production Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Box 798, Artesia, New Mexico 88210		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2310 FSL & 330 FWL		8. FARM OR LEASE NAME Fed. 18	
14. PERMIT NO.		9. WELL NO. 7	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT East Tonto Yates	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S18-T19S-R33E	
		12. COUNTY OR PARISH Lea	
		18. STATE NM	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Request permission to plug & abandon this well as it is no longer economical to produce; with plugs as follows:

1. Circulate with brine gel
2. 35 sx @ 3250'
3. 35 sx. @ 5 1/2" casing stub
4. 35 sx @ 1400'
5. 35 sx @ 316'
6. 10 sx. @ surface w/ dry hole marker
7. Clean & level location

NOTIFY NEAREST
WITNESS PLUGGING OPERATIONS

APPROVED SUBJECT TO
REQUIREMENT
BE RIPPED AND SIGNED

CONTACT THIS OFFICE
BEFORE MAKING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Partner

DATE

Sept 26, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

OCT 1 1974
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions on Reverse Side

P&A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. 100 64790
2. NAME OF OPERATOR J. H. C. Production Co.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Bx 798, Artesia, New Mexico 88210	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FWL & 1980 FEL	8. FARM OR LEASE NAME Pod. 18
	9. WELL NO. 3
	10. FIELD AND POOL, OR WILDCAT West Tonto - Yates
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S18-T19-R33E
14. PERMIT NO.	12. COUNTY OR PARISH Lea
15. ELEVATIONS (Show whether DF, RT, OR, etc.)	18. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Request permission to plug & abandon this well as it is no longer economical to produce; with plugs as follows:

1. Circulate with brine gel
2. 35 sx @ 3250'
3. 35 sx @ 5 1/2" casing stub
4. 35 sx @ 1400'
5. 35 sx @ 307'
6. 10 sx @ surface w/dry hole marker
7. Clean & level location

NOTE: WITHIN 30 DAYS

APPROVED FOR
REQUIREMENTS
BE RECEIVED

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert A. Brown

TITLE

Partner

DATE

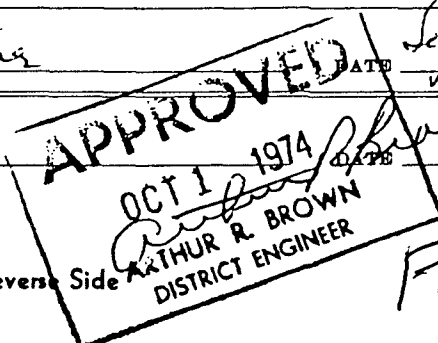
Sept 26, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions on Reverse Side

P. & A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LCO 64790

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Fed. 18

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

West Tonto-Yates

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

S18-T19S-R33E

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

J. H. C. Production Co.

3. ADDRESS OF OPERATOR

Box 798, Artesia, New Mexico 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)
At surface

2180 FNL & 690 FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH

Lea

13. STATE

NM

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☒CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Request Permission to plug & abandon this well as it is no longer economical to produce; with plugs as follows:

1. Circulate with Brine Gel
2. 35 sx @ 3250'
3. 35 sx @ stub of 5½" casing
4. 35 sx @ 1128'
5. 50 sx @ stub of 8-5/8" casing
6. 50 sx @ 250'
7. 10 sx @ surface w/dry hole marker
8. Clean & level location

APPROVED
REQUIREMENT
BE

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

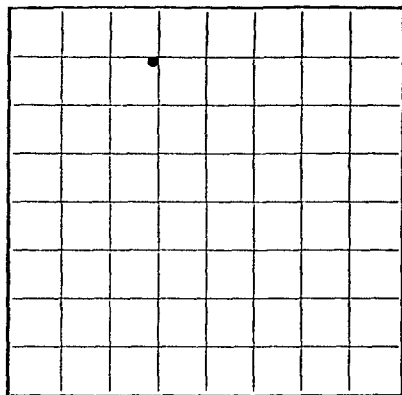
TITLE

CONDITIONS OF APPROVAL, IF ANY:

1974
ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions on Reverse Side

P. & A.



LOCATE WELL CORRECTLY

RECEIVED

HOBBS OFFICE OCC

UNITED STATES RECEIVED

AUG 1 1960

U. S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

GEOLOGICAL SURVEY

U. S. LAND OFFICE Las Cruces

SERIAL NUMBER 064790

LEASE OR PERMIT TO PROSPECT NM-077003

AUG 5 1960

D. C. C.
ARTESIA, OFFICE

check location

LOG OF OIL OR GAS WELL

Company William A. & Edward R. Hudson Address 1810 Electric Building
Fort Worth, Texas
 Lessor or Tract Federal 18 Field Wildcat State New Mexico
 Well No. 6 Sec. 18 T. 19S R. 33E Meridian NMPM County Lea
 Location 990 ft. N of N Line and 2045 ft. E of W Line of Sec. 18 Elevation 3649 DF
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date July 27th, 1960Title Joint Operator

The summary on this page is for the condition of the well at above date.

Commenced drilling July 14, 1960 Finished drilling July 22nd, 1960OIL OR GAS SANDS OR ZONES Plugged and abandoned

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8				255		none			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8		150			

P&A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

1C-064790

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 18

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

West Tonto (Y-SR)

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 18-19S-33E

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

1. OIL ☐ GAS ☐ OTHER ☒ **Dry Hole**

2. NAME OF OPERATOR

WILLIAM A. & EDWARD R. HUDSON

3. ADDRESS OF OPERATOR

302 Carper Building, Artesia, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

950' from North and East Lines

Sec. 18-19S-33E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3650 D.F.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☒FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☒(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On Nov. 12, 1964, 8-5/8" O.D. 24" J-55 casing was cemented at 273' with 200 sacks. Cement circulated to surface. No water encountered above casing.

On Nov. 20, 1964, well was plugged and abandoned as follows:

Spotted 30 sacks cement 3330-3230.

Spotted 30 sacks cement 2947-2847

Spotted 30 sacks cement 1530-1430

Spotted 30 sacks cement 323-223.

Spotted 10' cement in top of 8-5/8" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ralph L. Gray

TITLE

Consulting Engineer.

DATE

Nov. 30, 1964

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

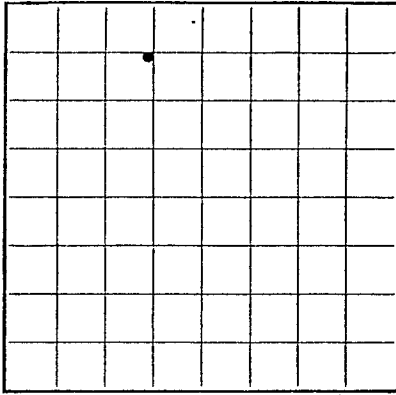
APPROVED

APR 2 1965

*See Instructions on Reverse Side J. L. GORDON
ACTING DISTRICT ENGINEER

PRA

U. S. LAND OFFICE **Las Cruces**
 SERIAL NUMBER **064790**
NM-077003
 LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED
 HOBBS OFFICE OCC
 UNITED STATES RECEIVED

AUG 1 1960
 DEPARTMENT OF THE INTERIOR
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO
 AUG 5 1960
 GEOLOGICAL SURVEY

D. C. C.
 ARTESIA, OFFICE

LOG OF OIL OR GAS WELL

check
 location

Company **William A. & Edward R. Hudson** Address **1810 Electric Building Fort Worth, Texas**
 Lessor or Tract **Federal 18** Field **Wildcat** State **New Mexico**
 Well No. **6** Sec. **18** T. **19S** R. **33E** Meridian **NMPM** County **Lea**
 Location **990** ft. **N** of **N** Line and **2045** ft. **E** of **W** Line of **Sec. 18** Elevation **3649** DF
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date **July 27th, 1960** Title **Joint Operator**

The summary on this page is for the condition of the well at above date.

Commenced drilling **July 14,** 19**60** Finished drilling **July 22nd** 19**60**

OIL OR GAS SANDS OR ZONES
Plugged and abandoned

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8				255		none			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8		150			

P.S.A.

RECEIVED

AUG 30 1960

U. S. LAND OFFICE Las Cruces

SERIAL NUMBER LC-B64790

~~LEASE OR PERMIT TO EXTRACT~~

U. S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO UNITED STATES FEB 1 1960

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY **D. C. C.**
ARTESIA, OFFICE

check
location

LOG OF OIL OR GAS WELL

[illegible]

LOCATE WELL CORRECTLY

Company William A. & Edward R. Hudson----- Address 1810 Electric Bldg., Ft. Worth, Texas

Lessor or Tract Federal 18 Field Undesignated State New Mexico

Well No. 4 Sec 18 T. 19S. R. 33E Meridian N.M.P.M. County Lea

Location ^{FNL} 1980 ft. ^{XXXX} of N. Line and ^{XXXX} 660 ft. ^{FEL} of E. Line of Sec. 18 Elevation 3,652 DF
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date August 29, 1960

Title--Consulting--Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling June 23, 1960 Finished drilling June 30, 1960

OIL OR GAS SANDS OR ZONES

: (Denote gas by G)

No. 1, from 3,280 to 3,310 No. 4, from to

No. 2, from _____ to _____ No. 5, from _____ to 62 _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	24#	J-55	more than 1000	100 #267	one king of inst	only 1000' long	one 1000'	of 1000'	Surface
5-1/2	14#	J-55	one 1000'	100 #349	one 1000'	one 1000'	one 1000'	of 1000'	Surface
							3282	35	
							3287	90	
							3293	3300	
							3305	90	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	267	150			
5-1/2	3349	40			

Producing oil well

MARK

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYLand Office LC-064790
Lease No. NH-077003
Unit RECEIVEDAPPROVED
AUG 15 1961A. R. BROWN
ACTING DISTRICT ENGINEER

AUG 17 1961

SUNDRY NOTICES AND REPORTS ON WELLS D. C. C.
ARTERIA, OFFICE

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July 14th, 1960

Federal 18

Well No. 5 is located 1980 ft. from NE line and 2035 ft. from E line of sec. 18NE/SW Sec. 18 19S 33E NHPM
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Lee New Mexico
(Field) (County or Subdivision) (State or Territory)The elevation of the derrick floor above sea level is 3632 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

In accordance with verbal approval this well was plugged on July 12, 1960, as follows:

set 32 sacks cement from 3345-3245
set 32 sacks cement from 2850-2750
set 32 sacks cement from 1460-1360
set 50 sacks cement from 263-213
set 50 sacks cement from 50-0

The U. S. G. S. will be notified when the location has been cleaned.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company WILLIAM A. & EDWARD R. HUDSONAddress 1810 Electric BuildingFort Worth, TexasBy [Signature]Title Joint Operator

P. & A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-064790 (Non-Unit)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 18

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

West Tonto-Yates-7 Rivers

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 18-19S-33E.

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

WILLIAM A. & EDWARD R. HUDSON

3. ADDRESS OF OPERATOR

Box #198, Artesia, New Mexico 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

See also space 17 below.)

At surface

1980' from north and 2039' from west lines of
Section 18-19S-33E.

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) Deepening ☒

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On May 17, 1971, well was cleaned out to a depth of 3280', original total depth. Drilled 4' of new hole to 3284' with a 4-3/4" bit. Ran tubing and set packer at 3273'. Tested below. Put on pump. Production declined to 7 BO + 475 BWPD. On June 27, 1971, deepened from 3284 to 3306'. Tested 100 bbls. formation water in 6 hours.

Lease transferred to David C. Collier, effective August 1, 1971, who requested that well be left in present condition.

18. I hereby certify that the foregoing is true and correct

SIGNED

Ralph L Gray

TITLE

Consulting Engineer.

DATE

Jan. 12, 1972

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED FOR RECORD

JAN 19 1972

*See Instructions on Reverse Side

Producing oil well

U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

U. S. LAND OFFICE ... Las Cruces

SERIAL NUMBER 067847

LEASE OR PERMIT TO PROSPECT

Check
Location

✓

[illegible]

Company Hudson & Hudson, Inc. Address 1810 Electric Building

Lessor or Tract Saunders "A" Field Fort Worth, Texas
Wildcat State New Mexico

Well No. 1 Sec. 19 T. 19S R. 33E Meridian N20M County Lea

Location 660 ft from (N. of 1930 ft. W. of) Line and 1980 ft. W. of Line of Sec 19 Elevation 3625
(Derrick floor relative to top of well)

Signed Chas. E. Johnson

Date March 4th, 1957 Title Secretary-Treasurer

The summary on this page is for the condition of the well at above date.

Commenced drilling February 24, 1957 Finished drilling March 2nd, 1957

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

[illegible][illegible]

PLA

MARK

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

Operator Collier & Collier	
Address P.O. Box 798, Artesia, New Mexico 88210	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner J H C Production Co., P.O. Box 798, Artesia, NM 88210

II. DESCRIPTION OF WELL AND LEASE

Lease Name Federal 19	Well No. 1	Pool Name, Including Formation Tonto Yates, South 7 Rivers	Kind of Lease State, Federal or Fee Federal	Lease No. NM#077004
Location Unit Letter <u>N</u> : <u>330</u> Feet From The <u>South</u> Line and <u>2310</u> Feet From The <u>West</u> Line of Section <u>19</u> Township <u>19</u> Range <u>33</u> , NMPM, <u>Lea</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Texas- New Mexico Pipe Line	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1510, Midland, Texas
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
N 19 19 33	

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe		

Producing oil & gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 171 077004	
2. NAME OF OPERATOR David C. Collier		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR Box 798, Artesia, New Mexico 88210		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 330' from South line & 2310' from East line.		8. FARM OR LEASE NAME Federal 19	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT South Tonto, Yates	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19 T-19-S, R-33-E	
		12. COUNTY OR PARISH Lea	
		13. STATE NM	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Set production casing.</u>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Ran 3072 feet of 5 1/2" 15.5# casing on July 8, 1974.

Cemented 5 1/2" casing with 500 sacks class "C" Incor Cement.

Tested casing to 1200 psi.

18. I hereby certify that the foregoing is true and correct

SIGNED

Robert A. Hearn

TITLE

Geologist

DATE

8-24-74

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
SEP 3 1974

*See Instructions on Reverse Side

Producing Oil well

U.S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

N. M. O. C. C. COPY

Copy to: Roswell

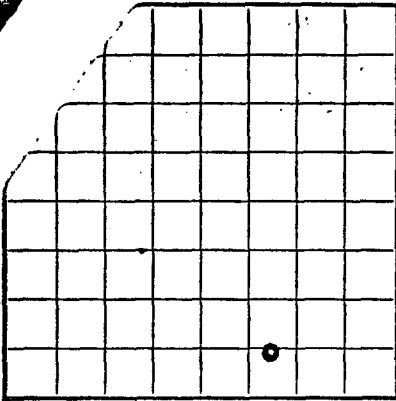
NMOC(2)

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Continued

U. S. LAND OFFICE New MexicoSERIAL NUMBER NM 077006

LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

RECEIVED
FEB 11 1963U. S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
ARTESIA, NEW MEXICO
GEOLOGICAL SURVEY

RECEIVE

FEB 12 1963

O. C. C.
ARTESIA, OFFICE

LOG OF OIL OR GAS WELL

Company Kewanee Oil Company Address P.O. Box 3786, Odessa, Texas
 Lessor or Tract Big Circle Field Undesignated State New Mexico
 Well No. 3 Sec. 24 T. 19S R. 32E Meridian NMPM County Lea
 Location 660 ft. {N.} of S. Line and 1650 ft. {E.} of E. Line of Section 24 Elevation 3602' GL
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed E. F. StinsonDate February 8, 1963 Title Division Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling December 2, 1962 Finished drilling December 16, 1962

OIL OR GAS SANDS OR ZONES

Core #2
 No. 1, from 2914 to 3092 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from 2914-11-05 to 2914-11-05 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8"	24	8Rd.	SS	301'	Halliburton	2972'	3092'		Surface
5-1/2"	14	8Rd.	SS	3190'	Baker	2972'	3092'		Oil String
HISLOX OIL OIL OIL OIL OIL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	301, 26'	200	Pump & Plug		Cement Circulated
5-1/2"	3167'	935	Pump & Plug		Cement Circulated

Producing oil well

FORMATION RECORD—Continued

U. S. LAND OFFICE New Mexico
NM 077066

SERIAL NUMBER NM 077066
LEASE OR PERMIT TO PROSPECT

RECEIVED UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
DEC 3 1962
F. D. C.
PARTIAL OFFICE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Location 330 ft. $\left\{ \begin{smallmatrix} N. \\ S. \end{smallmatrix} \right\}$ of S. Line and 330 ft. $\left\{ \begin{smallmatrix} E. \\ W. \end{smallmatrix} \right\}$ of E. Line of Sec. 24 Elevation 3608' GL
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date November 28, 1962 Signed 27 Sturges Vertical 27 Title Division Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling October 24, 1962 Finished drilling October 31, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2918 to 3098
No. 2, from to
No. 3, from to
No. 4, from to
No. 5, from to
No. 6, from to

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

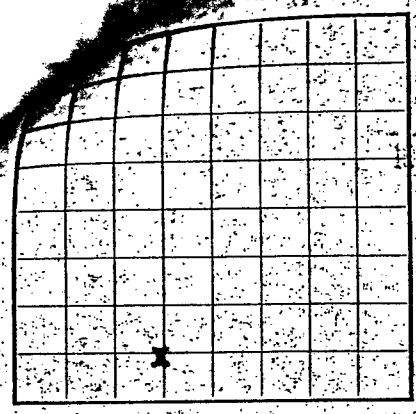
	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
MARK	8-5/8	305.46'	175	Pump & Plug		Cement Circulated
	5-1/2	3168'	740	Pump & Plug		Cement Circulated

Producing gas well

NOTED
OCT 30 1963
HUBBLE
MAIN OFFICE OCC

Bureau No. 42-R355.4
Approval expires 12-31-60.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 077004
LEASE McCORMICK



103-RCV 6 AM 2:24 UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

OCT 30 1963
U. S. GEOLOGICAL SURVEY
HOBBS, N.M.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company William A. & Edward R. Hudson Address 308 Carper Bldg., Artesia, New Mexico
Lessor or Tract Federal 19 Field South Tonto-Yates State New Mexico
Well No. 1 Sec 19 T. 19S R. 33E Meridian N19W County Lea
Location 330 ft. N of 3 Line and 2310 ft. E of W Line of Sec. 19 Elevation 3603 ft.
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Ralph L. Gray

Date October 29, 1963 Title Consulting Engineer.

The summary on this page is for the condition of the well at above date.

Commenced drilling Sept. 24, 1963 Finished drilling Oct. 20, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2978 to 2994 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 548 to 560 No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>13-3/8</u>	<u>73</u>	<u>J-55</u>	<u>3057</u>	<u>73</u>	<u>73</u>	<u>73</u>	<u>2978</u>	<u>2994</u>	<u>Surface</u>
<u>10-3/8</u>	<u>49.3</u>	<u>J-55</u>	<u>493</u>	<u>493</u>	<u>493</u>	<u>493</u>			<u>Cave</u>
<u>8-5/8</u>	<u>36.8</u>	<u>J-55</u>	<u>368</u>	<u>368</u>	<u>368</u>	<u>368</u>			<u>Cave</u>
<u>4-1/2</u>	<u>9.3</u>	<u>J-55</u>	<u>3057</u>	<u>3057</u>	<u>3057</u>	<u>3057</u>	<u>2978</u>	<u>2994</u>	<u>Oil</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>73</u>	<u>100</u>			
<u>4-1/2</u>	<u>3057</u>	<u>100</u> <u>ex. 4 1/2 Gal regular plug</u>			
		<u>100</u> <u>ex. Neat regular</u>			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

13-3/8	73"	100			
4-1/2	3057	100 ex. 4 1/2 Gal regular plus			
		100 ex. Heat regular			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
Frased 1978-94 with 500 gallons 15% acid plus 10,000 gallons refined oil plus 5,000# sand plus 2,500# glass beads.						

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
 emulsion, _____% water; and _____% sediment. _____ Gravity, °Bé _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
 _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	70'		Surface sand and caliche.
70'	1174		Red bed and sand.
1174	1305		Anhydrite.
1305	2725		Salt.
2725	2922		Anhydrite and shale.
2922	3060		Sand.
E. L. Tops			
T. Anhydrite -			1174
T. Salt - - - -			1305
B. Salt - - - -			2725
T. Yates - - - -			2922

Declaration of Owner of Underground Water Right

CP-71
Declaration No. Misc 2-L-60 Book _____ Date received March 22, 1963

I, Vernon E. Staley being first duly sworn upon my oath, depose and say that the following is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

_____, declarant.
Area Superintendent - Pan American Petroleum Corp.
Subscribed and sworn to before me this 20th day of March A.D. 1963
My commission expires 8-8-64
[Signature]
Notary Public

STATEMENT

1. Name of water right owner Pan American Petroleum Corporation
of Box 68 - Hobbs, New Mexico
County of Lea State of New Mexico
2. Source of water supply Shallow water basin
(state whether artesian or shallow water basin)
located in No name designated
(name of underground stream, valley, artesian basin, etc.)
3. The well is located in the SW $\frac{1}{4}$, NW $\frac{1}{4}$, NW $\frac{1}{4}$
of section 18 Township 19-S Range 33-E, N.M.P.M.
on land owned by U. S. Government
4. Description of well: date drilled Oct. 27, 1959 driller Murrel Abbott depth 870 feet.
diameter (outside) of casing 7" inches; original flow (pumped) 21 gal. per min.;
present flow (pump) 21 gal. per min.; maximum pumping lift 520 feet;
make and type of pump Beam Unit with sucker rods and common working bbl.
make, type, horsepower, etc., of power plant Int. U-30, 30HP
5. Fractional or percentage interest claimed in well 100%
6. Quantity of water appropriated and beneficially used 7 acre feet
(feet depth or acre feet per acre)
for water for oil well drilling purposes.
7. Acreage actually irrigated and with water right None acres,
located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

7. Water was first applied to beneficial use in October, 1959 and since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: Water has been used intermittently from October, 1959, through March, 1963, for oil well drilling operations on various Federal Leases in the Park Tonto Unit Area.
8. Additional statements or explanations This well was originally drilled to furnish water to our West Tonto Unit #1 in Sec. 18, T-19-S, R-33-E. Subsequently it has been used to furnish water to drill wells in the Plains and Lusk Units in T-19, R-32-E. Scarcity of water in this area has made it necessary to pump water a considerable distance to avoid expensive trucking and facilitate drilling of deep tests. When not being used by Pan American, the water has been used by other operators on a no-charge basis.

APPROVED
FEB 27 1962
K. R. BROWN
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. **MM 01235-D**
Unit **RECEIVED**
MAR 7 1962

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	X
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 22, 1962

W. E. BONDURANT
Well No. **3** is located **990** ft. from **N** line and **990** ft. from **E** line of sec. **13**
SE/4-SB/4, Sec. 13 **7-19-S, R-32-E** **N7M**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
West Tonto Yates-Seven Rivers **Lea** **New Mexico**
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **3634** ft. **RDB**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

In accordance with Form 9-331a approved April 3, 1961, this well was plugged and abandoned as follows:

Cement plugs set as follows: 25 sx at 3215'; 25 sx at 325'; and 10 sx at surface. All intervals filled with heavy mud-laden fluid. Cut and pulled 4 1/2" casing from 320'. Erected 4' PIA Marker. Restored ground to its natural contour.

FEB 26 1962

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Pan American Petroleum Corporation**

Address **Box 68**

Hobbs, New Mexico

Original Signed by:
By **V. E. STALEY**

Title **Area Superintendent**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved.
Bureau Order No. 42-81423.
5. LEASE DESIGNATION AND SERIAL NO.
6. IF INDICATED, DATE OF THIS DATE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 89240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2310' FNL x 330' FEL Sec. 13 (Unit H, SE 1/4 NE 1/4)

14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.).
3645' R.D.B.

7. UNIT ACCESSION NAME

8. FARM OR LEASE NAME
GARDNER (S. 1/4)

9. WELL NO.

10. FIELD AND FORMER WELL CAT
WEST TEND WELLS SEVEN RIVERS

11. SEC., T., R., S. OR BLM. AND SURVEY OR ACCT.

12. COUNTY OR DIST. AND STATE
LEA N.M.

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well abandoned 11-20-69
P&A as follows:
Lodged hole w/ mud.
Set 505x Cement plug FSD 3266-2542' (FSD 3263-3255')
Shot 4 1/2" @ 375' & 345', and pulled.
25 cu @ 345' (4 1/2" casing stub.
25 cu @ 290' (8 5/8" CSA 290)
10 cu @ surface w/ P&A marker.
Final cleanup made.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE AREA SUPERINTENDENT DATE FEB 2 1970

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

0+4- UEGS-N
1- NEW
2- WFS
1- BSA
1- RAN
1- CONSCO

*See Instructions on Reverse Side

J. L. GORDON
DISTRICT ENGINEER

P&A

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico
(Place)

9-23-60
(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Pan American Petroleum Corp. W. E. Bondurant, Well No. 1, in NE 1/4 SE 1/4,
(Company or Operator) (Lease)
I, Sec. 13, T. 19S, R. 32E, NMPM, Wildcat Undesignated Pool
Unit Lessor

Lea County Date Spudded 8-31-60 Date Drilling Completed 9-7-60

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I *
M	N	O	P

Elevation 3643' RDB Total Depth 3282' PBD 3267'

Top Oil/Gas Pay 3248 Name of Prod. Form. Yates

PRODUCING INTERVAL -

Perforations 3258'-62' w/2 JSPF

Open Hole Depth Casing Shoe 3272 Depth - Tubing 3260

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs. min. Size

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 98 bbls. oil, 0 bbls water in 24 hrs. min. Size 12/64"

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed Choke Size

Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: MCF/Day; Hours flowed

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Acidized w/500 gallons 15% regular

Casing Tubing Date first new Press. O-Pkr Press. F-120 Oil run to tanks 9-11-60

Oil Transporter Indiana Oil Purchasing Company (Trucks)

Gas Transporter Vented and being flared.

Remarks: Completed as flowing oil well 9-20-60.

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

Approved SEP 23 1960

Pan American Petroleum Corporation
(Company or Operator)

OIL CONSERVATION COMMISSION

By: [Signature]
Title

By: [Signature]
(Signature)

Title Area Superintendent
Send Communications regarding well to:

Name J. W. Brown

Address Box 68, Hobbs, New Mexico

2310 FSL & 330 FEL

Producing oil well

P&A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-K355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-01235-D

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bondurant Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

West Tonto Yates 7 Rivers

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

13-19-32

12. COUNTY OR
PARISH
Lea13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☒ Other _____b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Abandon ☒

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

P. O. Drawer A, Levelland, TX 79336

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2310' FSL X 1980' FEL, Sec 13, (Unit J, NW 1/4, SE 1/4)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 9-3-78 16. DATE T.D. REACHED 9-10-78 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3628.5 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 3350' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 10-3350' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron Formation - Oval Laterlog Micro SFL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	345'	12-1/4"	225 sx Class C	1278

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
						Abandon	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

See Line #26; Inclination Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Assist. Admin. Analyst

DATE 9-18-78

0+4 - USGS - H
1 - Div
1 - Susp

*(See Instructions and Spaces for Additional Data on Reverse Side)

1 - L. P. Thompson

P. O. Box 460

Hobbs, NM 88240

1 - F. R. Conley

Production Research

P. O. Box 1267
Ponca City, OK 74601

P&A

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COPY TO O.G.C.

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR Amoco Production Company							
3. ADDRESS OF OPERATOR P. O. Box 68, Hobbs, NM 88240							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1980' FSL & 1980' FEL Sec. 12 (Unit J, NW/4 SE/4) At top prod. interval reported below At total depth							
14. PERMIT NO.				DATE ISSUED			
15. DATE SPUDDED 3-18-79		16. DATE T.D. REACHED 5-4-79		17. DATE COMPL. (Ready to prod.) 6-5-79		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3674.5 RDB	
20. TOTAL DEPTH, MD & TVD 13,689'		21. PLUG, BACK T.D., MD & TVD 13,640'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY →	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 13,326'-13,341' Morrow						19. ELEV. CASINGHEAD	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog Micro SFL, Comp Neutron Form Density						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
13-3/8		48#		445'		17-1/2	
9-5/8		36#		5002'		12-1/4	
5-1/2		17# & 20#		13,688'		8-3/4	
CEMENTING RECORD		AMOUNT PULLED					
450 SX Class C							
2300 SX Howcolite; 200 SX Class C							
1800 SX Trinity Lite; 780 SX Class H							
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD		
					SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	13178'	
31. PERFORATION RECORD (Interval, size and number)							
13,326'-13,341' w/4 JSPF							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION							
DATE FIRST PRODUCTION 5-24-79		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 6-5-79	HOURS TESTED 24	CHOKE SIZE 22/64	PROD'N. FOR TEST PERIOD →	OIL—BBL. 2	GAS—MCF. 2440	WATER—BBL. 0	GAS-OIL RATIO 1,220,000
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL. 2	GAS—MCF. 2440	WATER—BBL. 0	OIL GRAVITY-API (CORR.) -	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Logs mailed 4-6-79							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Kay Cox</u>		TITLE <u>Administrative Supervisor</u>				DATE <u>6-16-79</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

0+5 - USGS-H, 1 - Hou; 1 - Susp; 1 - BD

Gas well - producing