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GENERAL CORRESPONDENCE

YEAR(S):

1980-1962



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE

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

MEMORANDUM

TO:

TOM PARKHILL

FROM:

JOE D. RAMEY

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

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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 come a so and some process something wall accounters in some

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 Conserv	ati o n Division	C VION	
Address P.O. Box 2088	Santa Fe, NM 87501			
Work authorized byM	r. Tom Parkhill	Data Received _	June 25, 1980	
Analyzed by J.M. Grover, M.S	• DateJuly	2, 1980 AAI#	12150	
Jane Charles	Σ			
SAMPLE ID	TDS (ppm)	C1 (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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JUL 0 9 1980 L CONSTRVATION DIVISION

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AAI No	. 12150
Custon	- 1
_	Oil Conservation Division - Tom Parkhill
_	P.O. Box 2088
_	Santa Fe, NM 87501

5 TDS, 5 SO, 5 C1 @ 16.50 ea	82	50		
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TOTAL	\$85	80		
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	TOTAL	TOTAL \$85	TOTAL \$85 80	TOTAL \$85 80

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

ERUCE KING GOVERNOR LARRY KEHOE SECRETARY June 30, 1980

POST OFFICE 80X 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



GOVERNOR LARRY KEHOE

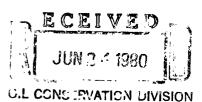
STATE OF NEW MEXICO

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



SANTA FE

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. (Plestocene).
- 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 Rose zone -- Used for stock.
- 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.
 - Taken from line at pit from seperator, 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.

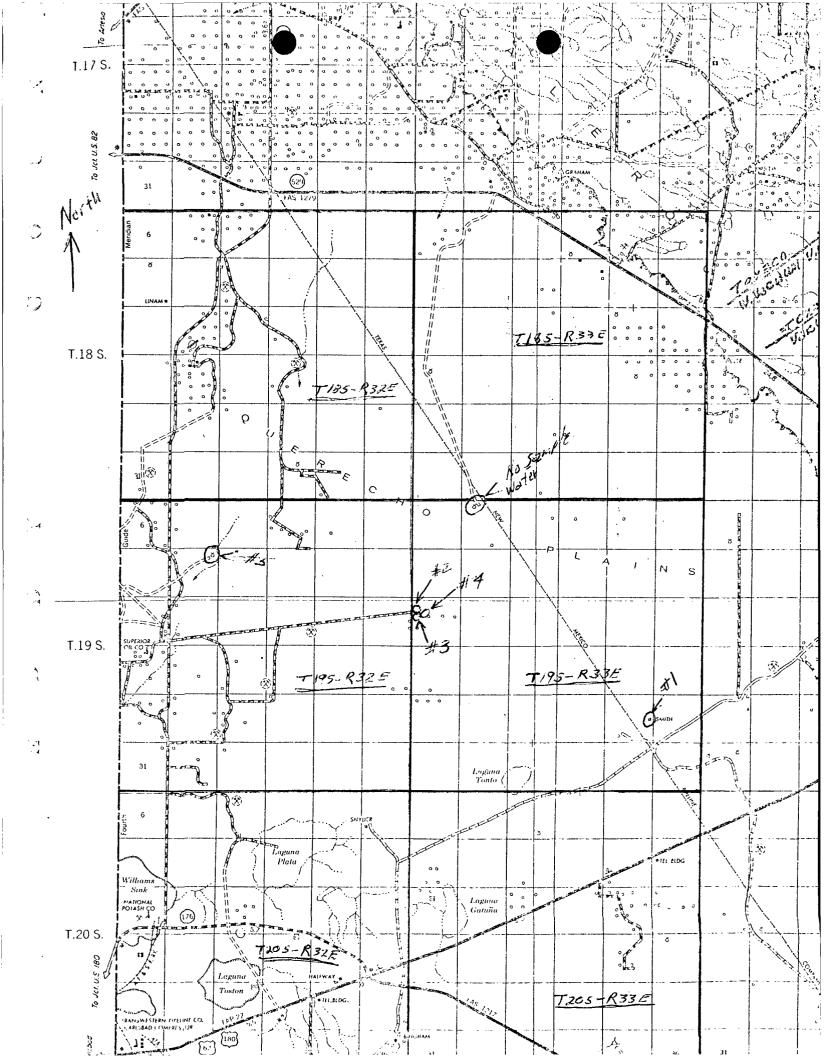
I am having a blank sepia run for you, it consists of six townships so that it will cover, T 18 to 20S, and R 32 and 33 E, I will mail it as soon as I get it back from the printers.

Sincerely,

OIL CONSERVATION DIVISION

John W. Runyan

Geologist





BRUCE KING GOVERNOR LARRY KEHOE SECRETARY

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HODBS DISTRICT OFFICE

June 23, 1980

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OIL CONSERVATION DIVISION

John W. Runyan

Geologist

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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.

SEPARATI COPIES GRASS PULL

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 NO₃ 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)

<u>Potash Refining Operations</u> (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 5- 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 aguifer 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)

<u>Duval Corporation</u> (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

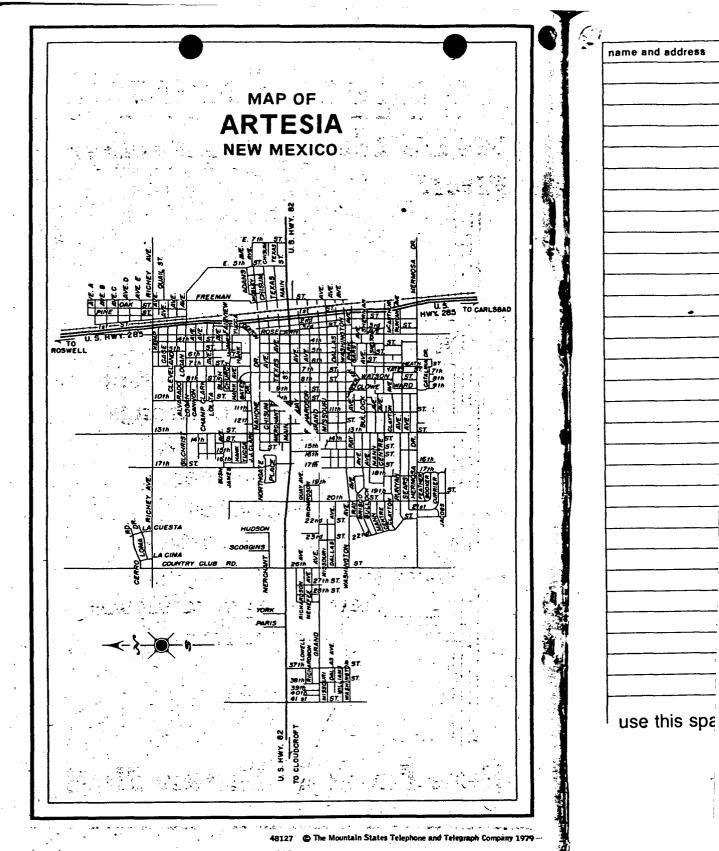
Seepage from these potash refinery brine disposal ponds is estimated to have migrated through Triassic deposits a maximum distance of 130 feet towards the south. (25)

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, 23)



Hudson 2 Hudson Case

Topo Maps of Area in

Glayton Basin-15min

Laguna Gatuna-15min

107

February 25, 1980

To: R.L. Stamets

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 T195 R33E of Lea County.

I would like to present parts of some of the important testimony presented at this

hearing from the records.

Ralph Gray presented testimony that the land owner, Mr Mork 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 has 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.

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 abandoved.

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

#2

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.

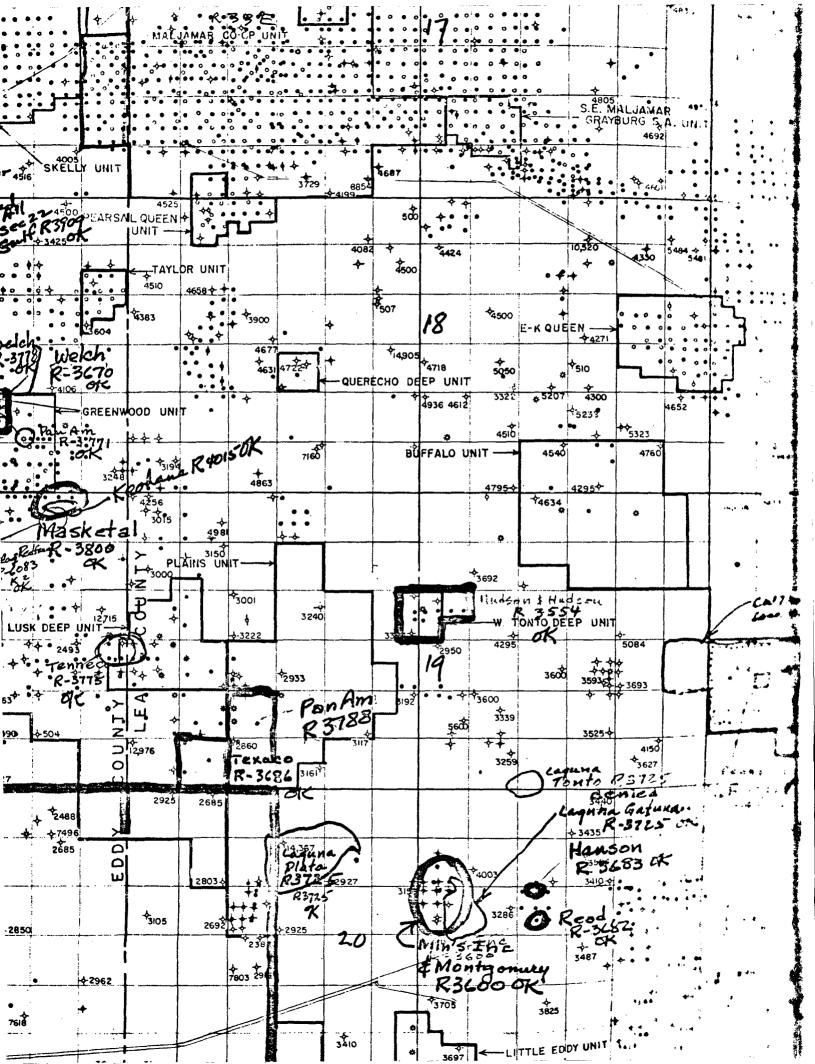
and most of the water comes from alluvium.

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

W. Report 6 on S. Lea Co. on ground water in T195, R34E, Sec 9 · 114, Tr (?), depth 33ft. water analysis indicates sufate-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, R195, Sec

7,18,19,20, T 34 E R195 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.



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Locate well and areas actually irrigated as accurately as possible on following plat: Section (8) 18 ___, Township 19-5 ____, Range _

lictor Well located 502' from West Line and 2120' from North Line Section 18, 1-19-S. R-33-E. Les County, New Mexico

inder Hell .

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 21/2 acre subdivision. If located on unsurveyed lands, describe by legal supdivision "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.

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

Water Rights Division

February 25, 1980

Tai. R. L. Stamets

From: Thomas A. Parkhill Subject! Keview 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 T195 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 ah 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.

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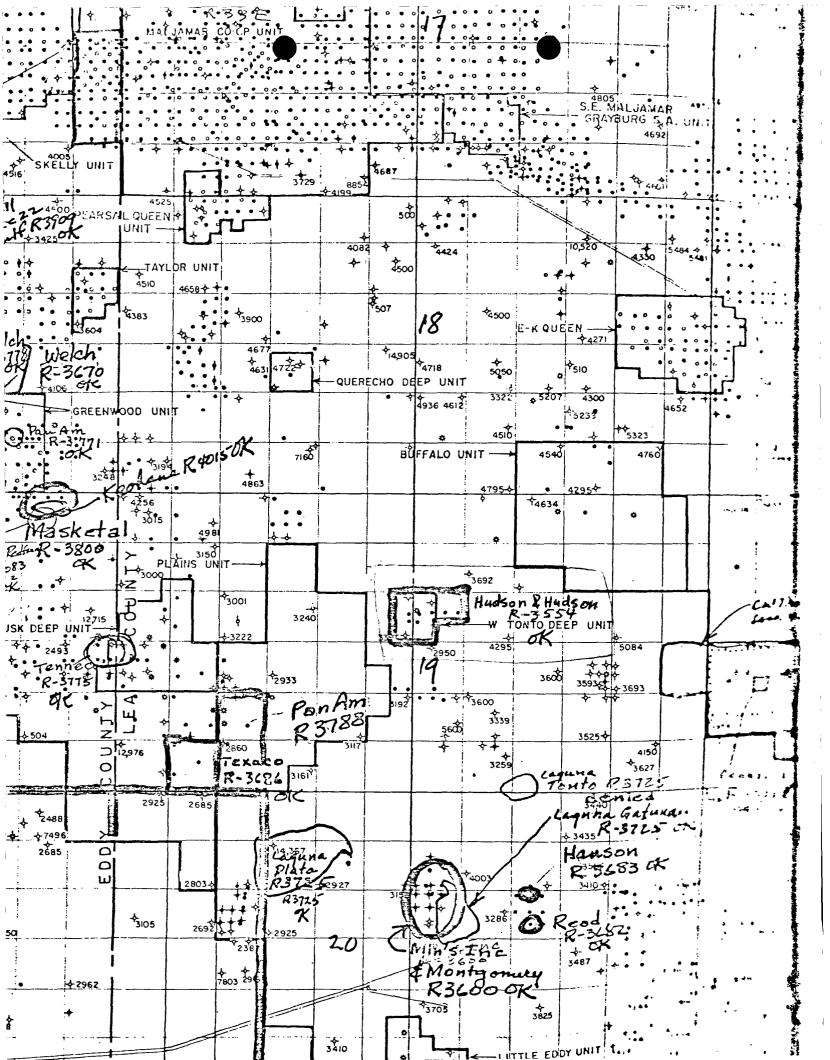
To prevent possible groundwater contamination, we should locate and take samples for water analysis for all wells in T33E, R195, Sec 17,18,19,20, T34E R195 Sec 12,13,24. These analysis should be for Chlorides, Sulfides Sodium and T.D.S. The reason for this work is the lack of Groundwater analysis done 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

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19.33.26.42221, and 19.33.26.422221.

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»		LCCATION		CCLLECTEC C716	CHLCRIDE FFM	CCNDUCTANCE M-MHGS	TEMP DEG	hBF	BASIN FILE	REFERENCE FILE	USE	FT CLTN	CLIR	176 174	CAFE	
1		298 25 44 298 25 44		12/11/70 11/01/76	124 94	1900 2860	68F	TRC TRC	CP CP		STK STK	UP CP	CCC 388		• •• • •	٤
•	AVERAGE	ES BY WELL	LCCA	TICH	109.0	2380.0	68.00					,				
***		325 OE 225 327 OE 225		12/05/58 11/18/65	21 25	6 8 2 700		TRS TRS	CP CP		STK STK	OP	SEC	X *		
-	LVERAGE	ES BY WELL	L C C A	TICN	23.0	691.0	-00									
***************************************	155	33F 26 42	221	8/11/76	286			CAL	CP		MOG	DP		x _	0279	
•	AVEP A GE	ES FY FFLL	ADDJ	TICN	286.0	•0	•00									
	15.5 15.5	335 26 42 337 26 42 337 26 42	2221 2221	11/17/65 5/25/72 8/20/76	298 280 289	2560 2490 2807	57F 66F	CAL CAL CAL	CP CP		STK OOM STK	YT OP OP	SFC USG SFC	* X	0279	U
•		235 26 42 ES PY WELL		10/08/76	306	2610	66F	GAL	CP		STK	YT	SFC			
terre et rendantement automobile e d		345 09 24		12/09/58	293 • 2 560	4660	03.00	CAL	CP		STK			x		
***************************************		ES BY WELL			560.0		•00				•					
4	198	34" 31 13	1 C C	11/17/65	717	4220	65F	OAL	СР		SIK	ijΡ	SEC			
•	LVERAC	ES EY WELL	LCCA	TICN	717.0	4220.0	65.00)								
•	195 195	24f 31 23 24f 31 23 24f 31 23 34f 31 23	2112 2112	11/17/65 5/25/72 8/20/76 10/08/76	289 290 298 297	2990 2960 2989 2985	66F 67F 67F	CAL CAL CAL	CP CP CP		STK STK STK STK	DP DP	370 130 370 340	X	0279	
	AVERAG	ES AY WELL	LCCA	TIÇN	293•5	2981.0	66.66	:								
<u>, </u>		350 C5 12 351 O5 12		8/31/65 8/18/71	20 90	495 932	66F	TOG TOG	L00493 L00493			DP DP	S F C			
•	AVERAG	ES PY WELL	LCCA	TICN	55.0	713.5	66.00)								
<u> </u>		25° 13 42 35° 13 42		8/31/65 5/19/77	25 46	450 681	68F 66F	TOG TOG	L04563 L04563		IRR IRR	DP DP	S F C S F C			··
	1V ER & G	ES EY FELL	rccv	TICN	35.5	5 585.5	67.00)							*****	
		351 15 11 351 15 11		8/31/65 5/23/71	20 91	455 702	68F	TOG TOG	L04763 L04763		CUM	CP UP	75C			
•	IVERAG	ES PY FELL	LCC4	TICH	55.	5 598.5	68.00)						• •••		



DOCATION: County	OWNER Pan American Ref. ORILLER Munuel Abbott. Completed		11/18 19 65 Record by Mason /
ORILLER Munuel Abbott. Completed	ORILLER Munch about Completed		
COPO SITUATION	TOPO SITUATION		2
DEPTH 870 ft Rept Meas Use OWD CASING 7 in to ft Log PUMP: Type Assembly Make Ser.no./model Size of dischg in. PRIME MOVER: Make Powe HP DEFINE MOVER: Make Power/Fuel PUMP DRIVE: Gear Head Belt Head Pump Jack Make Ser.no VHS WATER LEVEL: 23254 ft rept 3/15 19 8 above 7C Which is ft above below LS Which is ft above below described MP and ft above below LS	ASING		11 che 3/35
PUMP: Type	ASING		
PUMP: Type	PUMP: Type		
Size of dischg	Size of dischg		
PRIME MOVER: Make Power HP Power Fuel Pump Jack Make Ser.no Pump Jack Water Level: 232.54 ft rept 3/15 19/28 above TC Delow LS PERMANENT RP is which is ft above below LS below L	PRIME MOVER: Make		
PUMP DRIVE: Gear Head Belt Head Pump Jack Make Ser.no VHS WATER LEVEL: 232.54 ft rept meas 1968 above TC which is ft above below LS which is ft above below described MP and ft above below LS	POWER/Fuel PUMP DRIVE: Gear Head Belt Head Pump Jack Make Ser.no VHS WATER LEVEL: 232.54 ft rept 3/5 1968 above TC which is ft above below LS WATER LEVEL: 232.54 ft rept below LS PERMANENT RP is Which is ft above described MP and ft above LS REMARKS Well is located 522 FWL and 2/20 FNL AQUIFER(S): FS		
PUMP DRIVE: Gear Head Belt Head Pump Jack Make Ser.no VHS WATER LEVEL: 23.2.54 ft rept meas 1968 above TC which is ft above below LS which is ft above below described MP and ft above below LS	PUMP DRIVE: Gear Head Belt Head Pump Jack Make Ser.no VHS WATER LEVEL: 23.2.54 ft rept 3/15 1968 above TC which is ft above below LS PERMANENT RP is ft above described MP and ft below LS REMARKS Well is located 522 FWL and 2120 FNL AQUIFER(S): FS	PRIME	MOVER: Make
WATER LEVEL: 23.2.54 ft rept 3/15 1968 above TC below which is ft above below LS which is ft above below described MP and ft above below LS	WATER LEVEL: 23.2.54 ft rept 3/15 19 8 above TC below LS which is ft above described MP and ft above LS REMARKS Well is located 522 FWL and 2/20 FWL AQUIFER(S): FS	Ser.no	Power/Fuel
which isft above below described MP andft above below LS	which isft above described MP andft above LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS demarks Well is located 522 FWL and 2120 FWL	PUMP I	ORIVE: Gear Head Belt Head Pump Jack
which isft above below described MP andft above below LS	which isft above described MP andft above LS below LS demarks Well is located 522 FWL and 2120 FWL advised Signal above LS above LS demarks which isft above LS demarks which is	Make _	Ser.no VHS
PERMANENT RP isft above below described MP andft above below LS	PERMANENT RP is which isft above described MP andft above LS below LS below LS at a located 522 FWL and 2120 FWL AQUIFER(S): RS	WATER	LEVEL: 23.2.54 ft rept 3/15 1968 above TC
which isft above described MP andft above LS	which isft above described MP andft above IS REMARKS Well is located 522 FWL and 2120 FNL AQUIFER(S): FS		which is 1.5 ft above LS
	AQUIFER(S): FS	PERMAN	WENT RP is
	AQUIFER(S): FS		
	AQUIFER(S): FS		!
TEMARKS WELL WISCONSTITUTE	AQUIFER(S): FS		
	25-12.192		

Remarks cont. of section 18. This is the	east
well A 2 wells which are about 150	grant.
a 100 band storage tank in locar	tid 30'
west I well well is located about !	75 west
and 36 north of Hudson oil will which	12 2180 FN
and 690FW L Dection 18.	
/	
SKETCH:	
N.	
1	

2nd

LS

3rd

Hour 11.43 ph Obs 188-4	7.45	8.46		1.50
Not POA (χ) POA ()	232.55	23,2.54,		231.04
W L meas after pump shut	off	min.	Pumping	W L ()

lst

LOCATION: Cour	19 55 Record by Marson / Map 107.4.0
OWNER Dan C	amuian Pet.
DRILLER	
TOPO SITUATION	
DEPTH <u>850</u>	ft Rept Meas Use OWD
CASING 83/8	in toft Log
PUMP: Type	riston Make
Ser.no./model	Size of dischg in.
PRIME MOVER: N	Make none HP
Ser.no.	Power/Fuel
PUMP DRIVE:	Gear Head Belt Head Pump Jack
Make Fufker	Ser.no VHS
WATER LEVEL: _	ft rept above below
	which isft above LS
PERMANENT RP	is
which is	ft above below described MP andft above LS
/	i in the west well of 2 wells which

CATOMOGNA				
SKETCH:				
N				
A				
		•		ı
 				
To the second se				!
4				
				1
T.		•		
;				
	•			
THE TAX WARNING	 	DEPTH	I TO WAT	ER
INITIAL WATER- LEVEL MEASUREMENT		Below MP		
	lst	2nd	3rd	LS
Date, 19				
Hour PM Obs				
Not POA () POA ()				
W L meas after pump shu	t off	min	Dumnin	~ W T ()

<u>-</u>.

.

FE-1 State of New Mexico
State Engineer WELL SCHEDULE
Source of data: Obser Owner Other
Date
LOCATION: County Lin Map 107.4.0
OWNER
DRILLER Completed 19
TOPO SITUATION Dand dune USUST Flev 37/3
DEPTH 700 ft Rept Meas Use Stock
CASING_835 in toft Log
PUMP: Type fiston Make
Ser.no./modelSize of dischgin.
PRIME MOVER: Make Alimotor HP
Ser. no. Wooden Tower Power/Fuel Wisid.
PUMP DRIVE: Gear Head Belt Head Pump Jack
Make Ser.no VHS
WATER LEVEL: 43369 ft rept 3/15 1968 above Top
a truck while
which is 2.5 ft above LS
PERMANENT RP is
which isft above below described MP andft above below LS
REMARKS Three large still storage transm are
AQUIFER(S): Tes
Well No on Photo DPN 25-12191

File No CP- Loc. No. 19.33.5.12322

emarks	cont.	locate	Isa	ith of	wil	<u>/. </u>		
	•							
·								
·								
								

SKETCH:

A

INITIAL WATER-		DEPTI	H TO WATI	ER			
LEVEL MEASUREMENT	I	Below					
	lst	2nd	3rd	LS			
Date May 13, 19 68	441.00	440.00	441.00	433.69			
Hour 2:00 AM Obs 84-148	6.13	,6.11	7.31	2.50			
Not POA () POA (χ)	434.871	433.89	433.69	431.191			
W L meas after pump shut Remarks	t offLe	2 min.,	Pumping	g W L ()			

	State of New Mex. O
	well schedule Source of data: Obser Owner Other 15/15
	Date
	LOCATION: County Jea Map 107.4.0
l	OWNER Marke Smith (Headquarters)
i	DRILLER Completed 19
	TOPO SITUATION USUST Elev 3608
	DEPTH 101 ft Rept Meas Use Dom-57K'
ì	CASING in to ft Log
	PUMP: Type piston Make
	Ser.no./model Size of dischg in.
	PRIME MOVER: Make
1	Ser. no. Wooden Tower Power/Fuel Wind
,	PUMP DRIVE: Gear Head Belt Head Pump Jack
!	Make Ser.no VHS
:	WATER LEVEL: 94.2/ ft rept 7/1 1954 above 7C
:	
	which is !!! ft above LS
1	PERMANENT RP is
	No. of the second secon
	which isft above below described MP andft above below LS
	REMARKS This is the east well of 2 windmille.
i	AQUIFER(S) Pal
	Well No on Photo DPN 25-/2/95
	File No CP- Loc. No. 19.33.26.422221

1/25/72 FPL - Water sample collected.

SKETCH:

N.

INITIAL WATER-		DEPTI	H TO WAT	ER
LEVEL MEASUREMENT	I	Below MP		Below
	lst	2nd	3rd	LS
Date AM Obs AN	100.00			94.21
Hour AM Obs AN	5.79			1.40
Not POA () POA (X)	94.21.			92.81

W L meas after pump shut off ____ min. Pumping W L (χ) Remarks Will pumping

	marke Smith. (Headquarten)
OPO	SITUATION USB Starts Rept Meas Use Starts
	NG in to ft Log
	Type piston Make
	no./modelin.
	E MOVER: Make Almotoc HP
	no Power/Fuel Wind /
	DRIVE: Gear Head Belt Head Pump Jack
	Ser.no VHŞ
VATE	R LEVEL: 90.48 ft rept 3/14 1968 above 25
	which is 0.0 ft above LS
DERM	ANENT RP is which is telow LS
Litte	WENT IT IS
vhic.	h isft above described MP andft below LS RKS This is the west well of 2 wells Well

Remarks	cont. <u>A</u>	scharge	into 2	r stul s	tock tand
Marier A	ch hour	const	. Well so	about	150 NW
7					

SKETCH:

INITIAL WATER-	DEPTH TO WATER								
LEVEL MEASUREMENT		Below							
	lst	2nd	3rd	LS					
Date <u>Man 14</u> , 19 <u>68</u> Hour <u>10, 15 AM</u> Obs <u>CM-HP</u>	96.00	92.00		90.48					
Hour 10, 15 PM Obs 11-HP	5.52	1.50		-0-					
Not POA (χ) POA ()	90.48	190.50	/	90.48					
W L meas after pump shut Remarks	off	min.	Pumpin	g W L ()					

FE-1 State of New Me
State Engineer WELL SCHEDULE
Source of data: Obser X Owner Other
Date 12/8 19 43 Record by Mason
LOCATION: County Lea Map 107.4.0'
OWNER
DRILLER Completed 19
TOPO SITUATION sand duner USUST Elev 3650
DEPTH 13/ ft Rept Meas Use not
CASING in to ft Log
PUMP: Type Make
Ser.no./model Size of dischg in.
PRIME MOVER: Make HP
Ser.noPower/Fuel
PUMP DRIVE: Gear Head Belt Head Pump Jack
Make Ser.no VHS
WATER LEVEL: 12/.10 ft rept 12/8 1965 above Top
which is 2.70 ft above below LS
PERMANENT RP is
which is 0.28 ft above described MP and 2.42 ft above below LS
REMARKS Will in showen on USSS tape map.
AQUIFER(S): Pal
Well No on Photo DPN _25-12/92/
File No <u>CP</u> — Loc. No. <u>19.33.17.11224</u>

Remarks cont. Will is located by umain of an
old conal. Windmill tower ba blown
down. need 4- wheel drive or walk to
well.

SKETCH:

N

INITIAL WATER-	DEPTH TO WATER							
LEVEL MEASUREMENT	В	Below						
	1st	2nd	3rd	LS				
Date <u>S</u> , 1965	131.00			121.10				
HourAM obs C4m	9.90	/		2.70				
Not POA (X) POA ()	121.10			118.401				

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

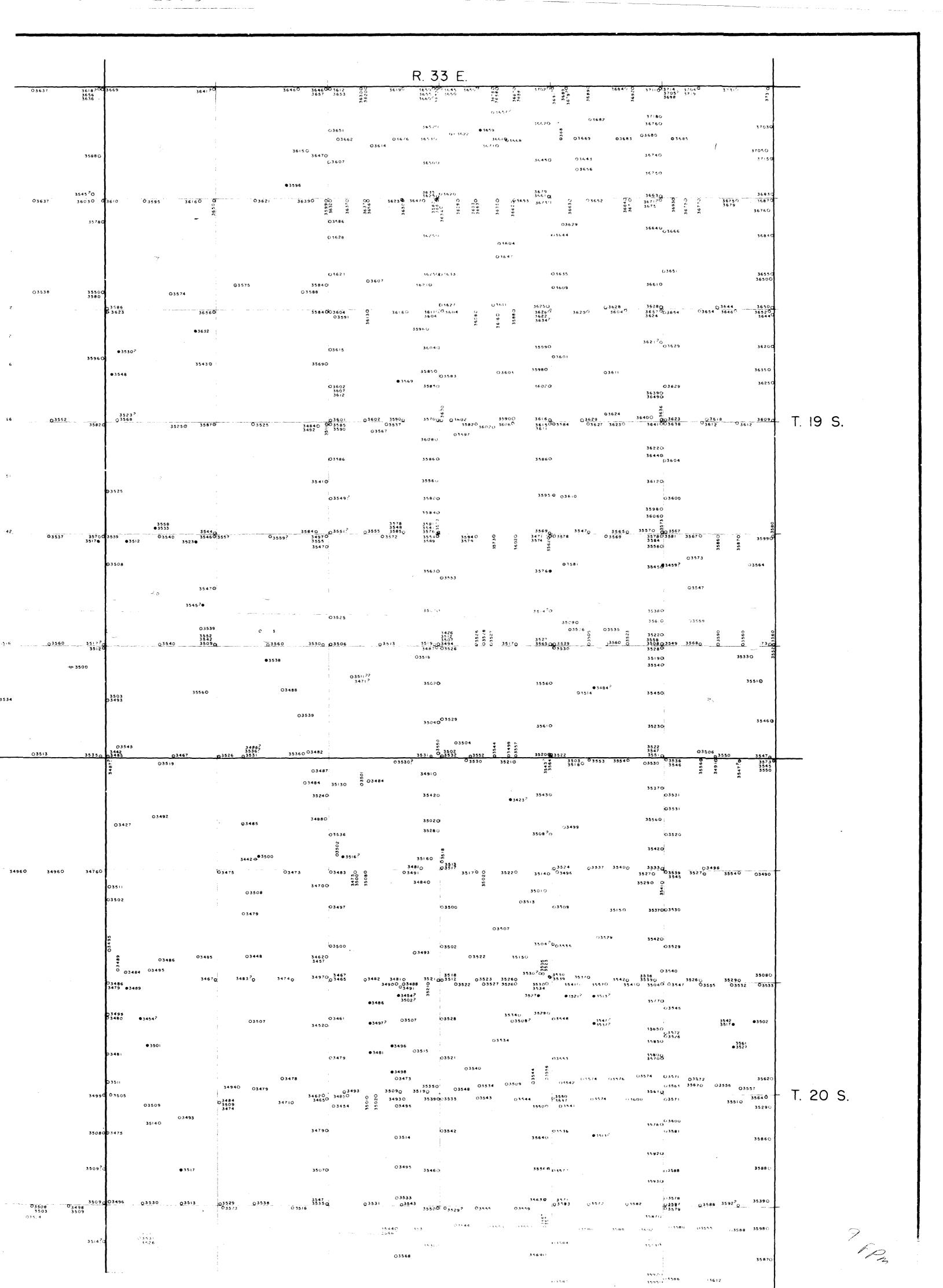
Very truly yours,

James I. Wright 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.

Jones Wright
Roswell
841497and38



NM OIL CONSERVATION DEPT

WELL LOG # Federal 19 No. 1

REMOVED FROM FILE

1R-0164 BOX

NUMBER 43

RETURNED TO CUSTOMER

Form 9-330 (Rev. 5-63)

UNIO STATES SUBMIT IN DUPLI (See DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

1 - L. P. Thompson P. O. Box 460

Hobbs - NM . 88240

0+4 - USGS - H 1 - Div

- Susp

(See orner instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-01235-D

		0.							[14141-0	0123	5-ก
WELL CO	MPLE	TION	OR RECO	MPLETI	ON I	REPO	RT AN	1D LOG*	:	G. IF INDIAN	, ALLO	OTTEE OR TRIBE NAM
1a. TYPE OF WE	LL:	OII.	X WELL	DI	RY X	Other _				7. UNIT ACR	EEMEN'	T NAME
b. TYPE OF COM		r: -		•					.,			
WELL	OVER [DEEP-	DACK BACK	DIFF RESV	vr.	Other _	Aband	ion	<u>X</u>	S. FARM OR		
2. NAME OF OPERA	TOR											Federal
Amoco P		ion Cor	npany							9. WELL NO.		
3. ADDRESS OF OP		۸ ۱		TV 70	226				1	10 5/5/5 43	4	L, OR WILDCAT
P. U. D			velland,			u State v	cauireme	n/a) *				
	•		980' FEL,					_	}.		R., M., C	Yates 7 Rive
At top prod. in	terval rep	orted below	<i>'</i>									
At total depth											19-3	
			(0)		RMIT NO.		DATE	SISSUED		12. COUNTY C		NM
15. DATE SPUDDED	1	•	CHED 17. DA	re compl. (Ready to	o prod.)	1	EVATIONS (DF, B) 8628.5 GR	KB, RI	r, GR, ETC.)*	19. z	ELEV. CASINGHEAD
9-3-78 20. TOTAL DEPTH, MD	3	-10-78	BACK T.D., MD &	mm 22	IF MUI	TIPLE CO		1 23. INTERVA	I.S	ROTARY TOO	LS	CABLE TOOLS
· 3350'	a 410	21. 12UU, 1	A.D., BID Q	22.	HOW M	ANY*		DRILLED	BY)-3350'		122 1000
24. PRODUCING INTE	CRVAL(S),	OF THIS CO.	MPLETION-TO	P, BOTTOM,	NAME (3	ID AND T	(UV)	<u> </u>	10	7-3330	1 25	. WAS DIRECTIONAL
•											1	SURVEY MADE
								•			İ	No
26. TYPE ELECTRIC				+							_	AS WELL CORED
Compensat	ed Neu	tron Fo	ormation	- Oval	Late	rlog i	Micro	SFL				No
28.				ING RECO			rings set					(2) (1)
CASING SIZE	WEIG	HT, LB./FT.				LE SIZE		CEMENT			·\	ANOUNT) PULLED
8-5/8"	_	24#	34	15'		2-1/4	··	225 sx 0		~ 12 Hill 1	2 1	
				·	İ					0) 120		40114
· · · · · · · · · · · · · · · · · · ·	_									M + 1	} '/	- 2021E
<u>. </u>		1.17	NER RECORD		<u> </u>		!	30.	TI	UBING RECO	JRD()	SICKL SOFT
SIZE	TOP (M		OTTOM (MD)	SACES CE	MENT*	SCREEN	(MD)	SIZE	1 0	EPTH SET A	Ole V	FACEER SET (MD)
				-						U- 402	162.	
				-].				
31. PERFORATION RE	CORD (Inte	erval, size (and number)	<u></u>	·	82.	A	CID, SHOT, FR.	ACTU	RE, CEMENT	r squi	EEZE, ETC.
						DEPTI	INTERVA	L (MD)	AMO	UNT AND KIN	D OF M	IATERIAL USED
f.												
	•											
						ļ						
33.*					DVCI	LICTION		<u> </u>				
ATE FIRST PRODUCT	TION	PRODUCT	ION METHOD (Flowing, ga		OUCTION		type of pump)				(Producing or
											t-in) Sando	on
DATE OF TEST	HOURS	TESTED	CHOKE SIZE	PROD'N		OIL-P	B1	GAS-MCF.		WATER-BBL		GAS-OIL RATIO
•					→			1				
LOW. TUBING PRESS.	CASING	PRESSURE	CALCULATED 24-HOUR RAT		BL.	c	AS-MCF.	W AT	En	BBL.	OIL GR	RAVITY-API (CORB.)
34. DISPOSITION OF	CAR (Sold	used for tu	el evented etc									
,	(5010)	, , 40	,, 610.							TEST WITNES	SED RI	
35. LIST OF ATTACH	MENTS									· · · · · · · · · · · · · · · · · · ·		
See Line	#26:	Inclina	ation Rec	ort								
6. I hereby certify					is comp	lete and	correct a	s determined fr	om a	ll available r	ecords	
SIGNED				<i>-</i>	A	ssist	. Admi	n. Analys	st		, 9	-18-78
SIGNED				TIT	TE:					DATE		
		*/Saa !-	structions =	nd Space	e for A	44:::-	al Data	on Royana	- ٦٠	`		

1 - F. R. Conley

Production Research

Pone Box 1267 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 copic 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 attached by the 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 productive 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 for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	ТОР		
					MEAS. DEPTS TRUE VEST. DEPT		
	-			Rustler	1290'		
				Yates	2990'		
	:			Seven Rivers	3180'		
,		·					
,							
•							

★ U.S. GOVERNMENT PRINTING OFFICE: 1974 - 780 - 680 / VIII - 238

Form 9-330 (Fev. 5-63)

COPY TO O. C. C.

ED STATES OF THE INTERIOR GEOLOGICAL SURVEY

(See other in-structions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-	-07	'70	02		

	•				• · · · • • ·					NM-(<i>) / /</i> 002	<u>/</u>	
WELL CO	MPLET	ION C	R RECO	MPLE	TION	REPORT	AN	D LO	G *	6. IF IN	IAN, ALL	OTTEE OR TRIBE	NAM
1a. TYPE OF WE	LL:	OII.	GAS WELL	7	DRY .	Other				7. UNIT	AGREEME:	NT NAME	
b. TYPE OF COM	iPLETION:		ALI WALL C	.		Other							
NEW WELL	WORK C	DEEP-	PLUG BACK	X r	ESVR.	Other				S. FARM	OR LEASI	E NAME	0
2. NAME OF OPERA	TOR			······						Nell	is Fe	e dera l A 🚽	ed
Amoco Pro	duction	Compa	ny							9. WELL	NO.		
3. ADDRESS OF OPE										1			
P. O. BOX 4. LOCATION OF WE	68, Ho	bbs, N	M 88240							10. FIELD	AND PO	OL, OR WILDCAT	
					_							Springs	
At surface 19	980' FN	IL x 66	O' FWL,	Sec.	8 (Uni	t E, SW	/4 NI	W/4)		11. SEC., OR A	T., R., M., Rea	OR BLOCK AND SU	RVEY
At top prod. in	terval repo	rted below											
At total depth								-		8-19	1-33	•	
				14.	PERMIT NO.	•	DATE	ISSUED		12. COUN		13. STATE	
				İ						Lea	н	NM	
15. DATE SPUDDED	16. DATE	T.D. REAC	HED 17. DAT	E COMPI	(Ready t	o prod.)	8. ELE	ROITAV	DF, RKB,	RT, GR, ETC.	• 19.	ELEV. CASINGHEA	D
12-5-79				1-14-	-80	,		36	67.8	GL			
20. TOTAL DEPTH, MD	& TVD	21. PLUG, B.	ACK T.D., MD &	TVD	22. IF MUL	TIPLE COMP	L.,	23. INT	ERVALS LLED BY	ROTARY	rools	CABLE TOOLS	,
13700'		1	3115'						→ !			<u> </u>	
24. PRODUCING INTE	RVAL(S), O	F THIS CO.	PLETION—TO	, BOTTO	M, NAME (MD AND TVD	•	[r) B	2 閏 Ⅱ ∥	/ 5 P	WAS DIRECTION SURVEY MADE	IAL
												リ	
			Bone S	pring	S			ט		 1	- 2013	WAS WELL CORED	
26. TYPE ELECTRIC	AND OTHER	LOGS RUN			,				JA	N 23 I)	VAS WELL CORED	
28.			CAS	ING RE	CORD (Res	port all strin	gs set i	n well)	s GEC	LOGICAL	SURV	EY	
CASING SIZE	WEIGH	T, LB./FT.	DEPTH SE	T (MD)	но	LE SIZE		CE	24404	RECORD V	EXICO	AMOUNT PULL	ED
			Exis	ting	Casing	Not Al	tere	d .					
													<u>. </u>
							_						
						·	<u> </u>						
29.			ER RECORD			1		30.		TUBING RI			
SIZE	TOP (MI	BO BO	TTOM (MD)	SACKS	CEMENT*	SCREEN (MD)	SIZE		DEPTH SET	(MD)	PACEER SET (M	(D)

31. PERFORATION RE	CORD (Inte	rval, size a	nd number)	1		32.	A.C.	ID SHOT	EDACT	TIDE CEMI	NT SOII	EEZE, ETC.	
10328'-103	346'		_					(MD)				MATERIAL USED	—
10354'-103	364' W	/2 JSP	<u> </u>	• .		10328					% DS-		
10001 100		.•	ا در فس		•	200			4010	gui Lo	<i>70</i> 00	30	
									ļ 				—
	•	•	•										
33.•						DUCTION							
ATE FIRST PRODUCT	'ION -	PRODUCTION	N METHOD (1		gas lift, pr	umping—size	and to	pe of pun	np)	WE	LL STATU Lut-in)	s (Producing or	
12-12-79		3.	: Pûm								Produ		
DATE OF TEST	HOURS T	1	CHOKE SIZE		D'N. FOR T PERIOD	OIL-BBL.		GAS-MC		WATERI	_	GAS-OIL RATIO	
1-14-80	CASING F	4	CALCULATED	011	—⇒ —BBL.	67	-MCF.	1	WATER-	<u> </u>	0	194	
	CABING .		24-HOUR RAT					. 1	"AILK-	_	OIL 0	MAVIII-AZZ (CORR.	,
4. DISPOSITION OF G	AS (Sold, u	sed for fuel	, vented, etc.)	_!	67		13)		O TEST WIT:	ESSED B	Ţ	—
To be sold	₹		·										
5. LIST OF ATTACH		· · · · · · · · · · · · · · · · · · ·				···				<u>'</u>			
6. I bereby certify	that the f	oregoing ar	d attached in	formati	on is comp	lete and cor	rect as	determine	ed from	all available	records		
oreven	37	LVh	AM		A	ssist. <i>I</i>	Admir	ı. Ana	lvst			1-17-80	
signed			<u> </u>	Т	TILLE				<i>J</i>	DA	TE	1 1, 00	

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FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.	Masem	т	OP
Bone Springs FORMATION RECEIVED PIL CONSERVATION DIV.	10328'	10364'	DESCRIPTION, CONTENTS, ETC. Oil Producing	Rustler Yates Seven Rivers Delaware 1st Bone Spring 2nd Bone Spring 3rd Bone Spring Wolfcamp Strawn Atoka Morrow	1445' 3042' 3542' 5230' 5 7600' 8 8850'	TRUE VERT, DEPT

Form 9-330 (Kev. 5-63)

UNITED STATES

SUBMIT IN DUPLIC

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

(See other in-

	DEPAR		LOGIC			' LKIOI	`	reve	rse side)			TION AND SERIAL NO
		GLO	LOGIC	AL 30	1					LC - (JU OTTEE OR TRIBE NAM
WELL CO	MPLETION	V OR	RECO	MPLET	ION I	REPORT	AN	D LO	G*	0. IF INDIA	N, ADD	
la. TYPE OF WEI	LL: 0	ELL	GAS WELL	,	ORY [Other T		ים פי בי	7 (2) (3	7. UNIT ACI	REEMEN	T NAME
b. TYPE OF COM					<u>۔</u>	7 15	, II	BIV	7 3 1			
NEW WELL	WORK D	EEP-	PLUG [DIF	F. SVR.	Other Lill	ı. O	<u> </u>		S. FARM OR	LEASE	NAME
2. NAME OF OPERA					•		MAR	1 4 49	RN	Fede	eral	AC :
Amoco	Production	on Con	npany	, , ,	• ;					9. WELL NO	·.	
3. ADDRESS OF OPE	RATOR					U. S. (GEOL	OGICA	L SUR	YEY :	Į :	* "
P. O. 4. LOCATION OF WE At surface	Box 68,	Hobbs	s, NM	88240	- 1	HO	3BS,	NEW I	MEXIC	10. FIELD A	ND POO	L, OR WILDCAT
4. LOCATION OF WE	CLL (Report loca	tion clear	ly and in	accordanc Sec	e with an	y State requir	rement	*(8)		Und. S		
At surface	OUO THE A	(1500	رڪيع. ر	4	1.			,		OR ARE		OR BLOCK AND SURVEY
At top prod. in	terval reported	below [Jnit B,	SW/4	WE/A			1		15	3-19 ⁻ -	-33 ** * * * * * * * * * * * * * * * * *
At total depth				4.1 E.F		4				1 2 2)-1 <i>)-</i>	- 55
				14. PE	RMIT NO.		DATE	ISSUED		12. COUNTY	OR	13. STATE
th fluid a today			· · · · · · · · · · · · · · · · · · ·		21.7 2005 - 2005					Lea		NM
15. DATE SPUDDED	16. DATE T.D.	REACHE) 17. DAT	E COMPL.	(Ready t	o prod.) 18	ELEV	ATIONS (I	F, RKB,	RT, GR, ETC.)*	19.	ELEV. CASINGHEAD
9-24-79	12-3-	79	3-10	08-0				3644.3	3 GR	•	ئے ا	
20. TOTAL DEPTH, MD 13670	i	130	55'	TVD 22	2. IF MUL HOW M	TIPLE COMPL.		23. INT	ERVALS LLED BY	O-TD)LS	CABLE TOOLS
24. PRODUCING INTE		S COMPL	ETION-TO	, воттом,	NAME (*(DVT DVA DVD	•			. :,	2	5. WAS DIRECTIONAL SURVEY MADE
							ئا ج	•				
12360	'-12373'											No .
26. TYPE ELECTRIC	AND OTHER LOGS	RUN		D	1.5+64	olog Mic		CEI				AS WELL CORED
Comp	Neutron F	orm v	ensity	; Duai	Later	TOTOG PITO	-10	31 L			Г——,	
28.		· /== - I				ort all strings	set in		IENTING	n ECOPD .		,
12 2/Å	WEIGHT, LE	./FT.	DEPTH SE									AMOUNT PULLED
13-3/8 9-5/8	_ <u>48#</u> 40#		4: 500	55'		7-1/2" 2-1/4"		0 SX (53_\$X
5-1/2	17# 20#	23#		570'	-1	3-3/4"				200 Clas 825 Clas		310 SX
		2011	130	7.0			100	<u>0 37 L</u>	166	OZD Clas	اعدر	TCMT 280'
29.		LINER	RECORD		`		Ī	30.		TUBING REC	ORD	
SIZE	TOP (MD)	вотто	M (MD)	SACKS C	EMENT*	SCREEN (MI)	SIZE		DEPTH SET (M	(D)	PACKER SET (MD)
								2-3/8	3	12284		12231'
							1					
31. PERFORATION RE			number)			32.	ACI	D, SHOT	FRACT	URE, CEMEN	T SQU	EEZE, ETC.
12360'-12373	' w/ 2 JSI	?}	,- n			DEPTH INT	ERVAL	(MD)	MA	OUNT AND KIN	DOF	MATERIAL USED
	:			: '						· ·:	:	:
	i	•	•	,		ļ 				 		•••
				•								<u>:</u>
33.*					PROI	UCTION						
DATE FIRST PRODUCT	ION PRO	DUCTION	METHOD (/	lowing, g	as lift, pu	imping—size (ind ty	pe of pun	1p)		STATUE	8 (Producing or
2-19-80		Flowi	ng					•		. ""		Shut in
DATE OF TEST	HOURS TESTER	- 1	OKE SIZE		V. FOR PERIOD	OIL-BBL.	1	GAS-MC		WATER-BBI	<i>.</i> .	GAS-OIL RATIO
3-10-80	11		5/64		>	125		203		43		16360
PLOW, TUBING PRESS.	CASING PRESS		LCULATED -HOUR RAT	011		GAS—I		,	WATER-	-ABL.	OIL GI	RAVITY-API (CORR.)
2900 34. DISPOSITION OF G	AS (Sold used to	r tuel m	nted etc)	27	3	4	<u>450</u>		95	L manage with Na		
To be sold	() #800 /(,, 00						•		TEST WITNE:	igen b	•
35. LIST OF ATTACH	MENTS									I		
ogs mailed 1			•			•						•
36. I hereby certify	that the forese	ing and a	ttached in	formation	is compl	ete and corre	ct as	determine	d from	all available i	ecords	<u> </u>
SIGNED Z	3062	w	٥	_ TI	rLE A	sst. Adm	in.	Analy	st	DATI	3	-12-80 ;
			• •									

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FORMATION	TOP	воттом		DESCRIPTION, CONTENTS, ETC.	• •	NAME	, C	TO	P
Strawn	12360'	12373 '	Gas & (Condensate		TABLE .		MEAS. DEPTH	TRUE VERT. D
:			Estamat	te Tops		Delaware		5975'	2.1
			Pates -	e tops -2640 -4200 are -5580		First Bon	e Sprin	gs 7650'	
	:		Queen-	-4200		SecondBon			1
011.0			Delawa	are -5 380		Secondoon	e sprii	95 0022	
RECE IHA 2 CONSER						Third Bon	e Sprin	gs10370'	
CEIV 2 5						Wolfcamp	Niger -	10896'	
1980 1980		;				Strawn		12058	
)	•				·,	Atoka		12572'	
						// doka	- 44-	12372	
	,			1. 人类人工 医血管		Morrow		13028	
						15.7			
r., i.] . [1 1		4.		

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-683636

871-233

D STATES TOUBLE CA SUPLICA DEPA

Form approved. Budget Bureau No. 42-R355.5. SIGNATION AND SERIAL NO.

RTMENT OF THE INTERIOR	structions on teverse side)	5. LEASE DES
GEOLOGICAL SURVEY		NM OTO

										1111-0	1233	- W
WELL CC	MPLETION	I OR	RECO	MPLE	TION	REPOR	TAN	D LOG	; *	6. IF INDI	AN, ALI	OTTEE OR TRIBE NAM
1a. TYPE OF WE	LL: OII	ELL	GAS WELL	(X	DRY 🗌	Other		77 16 1	d	7. UNIT A	OREEME	NT NAME
b. TYPE OF COM		EP- [*****			6	1 I D	1 A C.	四			
WELL (1)	OVER L EN		PLUG DACK	<u> </u>	ESVE.	Ofher	طاولا	·A10		S. FARM O		•
Amoco	Production	Comp	anv			111	1	OGICAL OGICAL NEW ME	DVE	OUNG	iuran io.	t Federal
3. ADDRESS OF OP	ERATOR	. 00p					105	CICAL	PICO.		5	
P. 0.	Box 68, Ho	bbs,	NM 88	3240			GEOL	WEM WE	XIO	10. FIELD	AND PO	OL, OR WILDCAT
4. LOCATION OF W	ELL (Report locat	ion clear	ly and in	accorda	nce with an	y Stabere	(OBB)	±8)* □ C□ (4\		West	, 1011	to Penn
P. O. 4. LOCATION OF W. At surface At top prod. in	1980 FSL	& 198	U FEI	_ 2ec	. 12 ((milo,	, NW/4	3E/4)		OR ARI		, OR BLOCK AND SURVE
	itervai reported b	eiow								12-1	9-32	
At total depth		•		1 14	PERMIT NO.		DATE	ISSUED		12. COUNT	Y OR	13. STATE
	•			1	10.	•		140022		Lea		NM
15. DATE SPUDDED	16. DATE T.D.	REACHED	17. DAT	E COMP	L. (Ready t	o prod.)	18. ELE	VATIONS (DF	, RKB, R		19.	ELEV. CASINGHEAD
3-18-79	5-4-79)		6-5	-79	Ì		3674.5	RDB			
20. TOTAL DEPTH, MD	21. PL		T.D., MD &	TVD	22. IF MUL HOW M	TIPLE COM	PL.,	23. INTER	ED BY	ROTARY TO	OOLS	CABLE TOOLS
13,689' 24. PRODUCING INTI	ERVAL (P) OF THIS	13,6		P. BOTTO	M NAME (1	MD AND TV	n)*	<u> </u>	→	0-TD		25. WAS DIRECTIONAL
PA. PRODUCING INT	ERVAD(S), OF THE	COMILE	110.1-10.	, bollo	m, Name (۷,	•		•		SURVEY MADE
13,326'-1	3,341' Mor	row						:				No
26. TYPE ELECTRIC	AND OTHER LOGS	RUN									27.	WAS WELL CORED
	erolog Micr	o SFL									l N	0
28. CASING SIZE	WEIGHT, LB.	/FT.	CAS DEPTH SI		CORD (Rep	ort all stri	ings set i		NTING B	ECORD		AMOUNT PULLED
13-3/8	48#	-	445'	()		7-1/2	- <u>-</u> Δ	50 SX (AMOUNT POLLED
9-5/8	36#		5002			2-1/4					200	SX Class C
5-1/2	17# & 2		13,688	3'		8-3/4						80 SX Class H
29.			RECORD			l		30.		UBING RE		1 ()
SIZE	TOP (MD)	вотто	M (MD)	SACKS	CEMENT*	SCREEN	(MD)	2-3/8 ¹	1	_{ЕРТН} SET (MD)	PACKER SET (MD)
				<u> </u>				2 3/0	- -	13170		-
31. PERFORATION RE	COBD (Interval, s	ize and	number)		1	82.	AC	ID, SHOT,	FRACTU	RE, CEME	NT SQU	JEEZE, ETC.
			•		• •	DEPTH	INTERVA	L (MD)	A M O	UNT AND K	IND OF	MATERIAL USED
ו איני פו	3,341' w/4	10DE										
13,320 -1	3,341 W/4	JSPF		•					 			
									"			
33.•						DUCTION						
DATE FIRST PRODUC	TION PROD			Flowing	, gas lift, p	umping—8	ize and t	ype of pump	7)	87	iut-in)	us (Producing or
5-24-79 PATE OF TEST	HOURS TESTED		wing	I PRO	D'N. FOR	OIL-BB	1.	GAS-MCF		VATER—B	ut-i	O GAS-OIL RATIO
6-5-79	24		22/64		T PERIOD	2	. .	2440		0		1,220,000
LOW. TUBING PRESS.	CASING PRESSU	RE CAI	CULATED		BBL.		S-MCF.	<u> </u>	VATER-		OIL	GRAVITY-API (CORR.)
		_ •	HOUR RAT		2		2440			0		
34. DISPOSITION OF	GAS (Sold, used fo	r fuel, ve	nted, etc.)							TEST WITN	ESSED 1	ВУ
SOID 35. LIST OF ATTACE	IMENTS									 -		
	ed 4-6-79							;				
36. I bereby certify	that the foregoi	ng and a	ttached is	nformat				•			record	8
SIGNED	Kay L	ev			Ad	minist	rativ	e Super	visor			16-79
									····	Da1	LE	

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T.

		·			
13,326	13,341	Gas	Bone Springs	7520 '	TRUE VERT, DE
		Estimated tops	Wolfcamp	10682'	
		Rustler-1510	Atoka	12426'	
		Delaware - 5530	Middle Morrow	12871'	
	. 1				·
		1	Estimated tops Rustler-1510' Queen-4140' Delaware-5530'		

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NMOCC COPY

UNITE STATES 51

SUBMIT IN DUPLICATES

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

UNITE	STATE	ES	EUBMIT IN	DUPLI
DEPARTMENT		-	RIOR	(Se

(See other structions on reverse side)

1.		. 0	EOLOGIC	AL SUR	VEY	•		rever	se side)	NM :	2843	1 2 oza
GII CC	JAADI ET	FION	OR RECO	ADI-ETIO	NI D	EDODT	A NI	D 1 O	2 *	_1		LOTTEE OR TRIBE NAM
PE OF WE		011.	<u> </u>			EPUR	AN	D LO	J	.		
		WELI	MELL GAB	CX DRY	U,	Other	₹€	EIV		7. UNIT AGE	REEME	NT NAME
PE OF CO.	work [DEEP	- PLUG BACK	DIFF.	П			~/V	E-	S. FARM OB		P NAME
WELL LA	OVER L		LJ BACK L	resvr.		Other	W .	1977	50	S. FARM UN		7 1
Inexco		กรกบ			•	ARTESA X 77002 Estate x equit	., <	1922	,	Fede		
DORESS OF OF		pany				ARTERIOL	UGin			-		1
1100 Mi	lam Bld	g. S	uite 1900.	Houston	2. T	x 77002	NEW	AL SUP	75			OL, OB WILDCAT
1	ELL (Repor	t location	uite 1900. I clearly and in	accordance wi	th any	State requir	eméhi	WEX/CO	也们			nto PED
At surface 1	980' FN	IL and	660' FEL	·.		一黑日	(a)	1500	125	OR AREA		, OH BLOCK AND SURVE
At top prod. in	nterval repo	orted belo	SE NE	7-198-33	3 F.	R_{B}	1111	21 19	77			
At total depth			SE NE	, 170 3.	,,,	•	11:13	~ ~		7-19	15-3	3E
SE NE	7-19S-3	3_7		14. PERM1	T NO.		DATE:	M KEN	-CABI	12. COUNTY		13. STATE
OE NE	1-195-3	J-15				U. 5.1	5-1	47-57 N	IEXICC	PARISH	LEA	New Mexic
DATE SPUDDED	16. DAT	E T.D. RE	ACHED 17. DAT	E COMPL. (Re	ady to	prod.) 18.	ELEV	ATIONS (D	F, REB, 1	RT, GR, ETC.)*	19.	ELEV. CASINGHEAD
2-19-77	5-9-7	<u> </u>	6-10				366	5 GR	· · · · · · · · · · · · · · · · · · ·			3689
.0. TOTAL DEPTH, MI	i		BACK T.D., MD 4		MULT OW MA	TIPLE COMPL.,		23. INTE	RVALS LED BY	BOTARY TOO	LS	CABLE TOOLS
13,647		13,3							<u>→ </u>	XXX	<u> </u>	25. WAS DIRECTIONAL
4. PRODUCING INT	ERVAL(B), C	F THIS C	OMPLETION—TOP	, BUTTOM, NA	. pa / a 14	D AND TVD)*				٠,		SURVEY MADE
V 1221)/ 1222											NO
Morrow 1323			3 N							<u></u>	27.	NO WAS WELL CORED
Dual Latero				GR Dens	itv	Neutron	•	•		1		NO ·
s.) <u>106</u> , <u>D</u>	<u> </u>		ING RECORD				well)				
CASINO SIZE	WEIGH	IT, LB./F				E SIZE	<u>-</u>		ENTING	RECORD		AMOUNT PULLED
13 3/8	4	8	510		17	1/2		510 S	X			None
8 5/8	2	4	5109		11			2410 S	X			None
5 1/2		7	13647		7 7	7/8	:	575 S	<u>X</u>			None .
			<u> </u>									<u> </u>
9			INER RECORD	T			, - -[.	30.		CUBING REC		1 (1/2)
SIZE	TOP (M		BOTTOM (MD)	SACKS CEME	NT*	SCREEN (MD	<u>'</u> -	2 7/8	(3110	(D)	13110
				<u></u>			-	2 1/0		2110		13110
1. PERFORATION BE	COED (Inte	rval, size	and number)	<u> </u>	' i	82.	ACI	D, SHOT,	FRACT	URE, CEMEN'	T SOI	JEEZE, ETC.
13,320-32	24 2 S	PF			Ì	DEPTH INT						MATERIAL DRED
13,288-29			•		.			·	N	lone		
13,234-25	8 2 S	PF			- 1			,				
•					-							
			·									
3.* ATE FIRST PRODUCT	rion	PROBEC	TION METHOD (F			UCTION	nd to	pe of num	n)	1 100 91 1	STATE	US (Producing or
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6-1-77	5		24/64	TEST PERI	► TOD	32	.	933		0		29156
OW. TUBING PRESS.	CASING I	RESSURE	CALCULATED	OIL-BBL.		. GAS-M	CF.		WATER-		OIL (GRAVITY-API (CORR.)
2100	0		24-HOUR RATE	15	4	4,4	80 .	•	0		:	40 .
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. LIST OF ATTACE	MENTS									: :		
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SIGNED W	aus	<u>~</u> /	war	TITLE	Pro	duction	Eng	gineee	<u> </u>	DATE	6-	3-77

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 agency, 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 to be 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 Federal 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.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

them 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State 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 producing 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, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cament": 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.)

TOP	NAME .	DESCRIPTION, CONTENTS, ETC.	воттом	TOP	FORMATION
7620 10865 12130 12421 13188	Bone Spring Wolfcamp Strawn Atoka Morrow "B"	Salt & anhydrite Anhydrite Dolomite & Sand Limestone Sand & Shale Limestone, Sand, & Shale Limestone, Sand, & Shale Sand & Limestone Limestone Limestone Shale & Limestone Limestone Limestone Limestone A Shale Sand, Limestone Limestone Shale & Shale Sand, Limestone, & Shale	3100 3600 5700 5900 7600 8800 10400 10860 11030 12100 12420 13100 13647 TD	3100	FORMATION

★ U.S. GOVERNMENT PRINTING OFFICE: 1974 -780-680/VIII-238

	COP	Y TO O. C. C.	· · · · · · · · · · · · · · · · · · ·
Form (\$33) (Nay 1963) DEPA	UN D STATES ARTMENT OF THE INTER GEOLOGICAL SURVEY	SUBMIT IN TRIPLETE (Other Instructions on r (Other Instructions on r	
(Do not use this form for	NOTICES AND REPORT proposals to drill or to deepen or 1	JN WELLS mack to a different reservoir, proposals.)	6. IF INDIAN, ALLOTTEE OR THINE NAME
OIL GAS WELL OT 2. NAME OF OPERATOR	HER		7. UNIT AGREEMENT NAME SRM 1167 Dated 12/1/76 8. FARM OR LEASE NAME
Inexco Oil Compa 3. Address of Operator	ny		Federal Com. 7
See also space 17 below.) At surface	Suite 1900, Houst	On , <u>Texas</u> 77002 _ State requirements.•	2 10. FIELD AND POOL, OR WILDCAT West Tonto Penn 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
1980' FNL & 660'	15. ELEVATIONS (Show whether be	F RT CR etc.)	Sec. 7 T-19S, R-33E
14. PERMIT NO.	3659,4		Lea New Mexico
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This is to advis 1979 producing			tream May 2,

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 FOR RECORD TE 5/8/79
(This space for Federal or State office use)		
CONDITIONS OF APPROVAL, IF ANY:	TITLE	MAY 14 1979 MAY 14 1979 MAY 14 1979 MAY 14 1979 MAY 14 1979 MEXICO MEN MEXICO
*Se Pr	e Instruction	ons on Reverse Sign BBS, NEW W.

Form C-102 Superseder C-128 of Effective 1-1-65

		All distances must be	from the outer boun	deries of the Secti	on 72	7 10 7
Letator Thirting	OTT AMENDE		Lease		~	War 1, "it.
LIVEACO	OIL COMPANY Section	Township	Fede:	al Cunty		
Н	7	19 Sout	ch j	3 East	Lea -	•
A tual Funtage Lace	tion of Well:	_				
1980 Str. and Level Elev.	feet from the Producing Form	north line one	1 660 Pool	feet from the	<u>east</u>	Trentcated Anneage:
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		ed to the subject v				
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	ommunitization, u	fferent ownership is nitization, force-poo swer is "yes;" type	ling. etc?		r interests of unitization	all owners been consoli-
this form if No allowab	necessary.) le will be assigne	d to the well until a	ll interests have	heen consulid	ated (by comm	nunitization, unitization, approved by the Commis-
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	- +	F	ederal		shown on to notes of a under my s is true an knowledge Date Surveye Jan	d • 14, 1977 mtessional Engineer
Par 312					Sertificate 11	°. 676
330 660 '9	0 1320 1680 1980	2310 2640 200	0 1500 100	o soo Fost	ucing gas	well

NEW EXICO 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 Well No. Lease Nellis - Federal A Amoco Production Company Unit Letter County Section Township 19 South 33 East Lea Actual Footage Location of Well: 660 West North feet from the feet from the line and line Dedicated Acreage: Ground Level Elev: Producing Formation Pool Und. Bone Springs 40 3667.8 Bone Springs 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 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. Position Administrative Analyst بر 660 -Amoco Production Company 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. 2000 330 660 1320 1650 1980 2310

Producing gas well

Form	
(May	1963)

Form 9-331 (May 1963)	UTED STATED STATE		SUBMIT IN TR (Other instructions on verse side)	re- Bu		d. u No. 42-R1424.
	GEOLOGICAL S		(verse side)	14 07	7005";""	
(Do not use this for	RY NOTICES AND RE	epen or plug back	to a different reservoir.	6. IF INDIA!	, ALLOTTEE	OR TRIBE NAME
OIL GAS WELL WELL	534 F. Temporarily	Abandoned	Orilling	7. UNIT AGR	EEMENT NAM	110 -
2. NAME OF OPERATOR POR AMORICAN P.	etroleum Corporation		•	8. USA Cu	Theresc	n-Irwin
3. Address of Operator BOX 65 - Honos	, New Mexico - 63240	<u> </u>		9. WELL NO	1	
4. LOCATION OF WELL (Reposee also space 17 below. At surface	ort location clearly and in accords)	nce with any Star	e requirements.*	wildcat	ND POOL, OR	WILDCAT
1990' FSL X 66	O' FHL Sec. 8, (Unit	L, NW/4 S	d/4)		E., M., OR BL EY OR ABEA	K. AND
14. PERMIT NO.	15. ELEVATIONS (St. 3570)	ow whether DF, RT,	GR, etc.)	12. COUNTY	1	13. STATE New Mexico
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PROPOSED OR CO	Check Appropriate Box To SIGE OF INTENTION TO: PULL OR ALTER CASIN MULTIPLE COMPLETE ABANDON* CHANGE PLANS DIMPLETED OPERATIONS (Clearly stated is directionally drilled, give stated)	G	SUBSE WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other) (Note: Report resul Completion or Recon	REQUENT REPORT OF REPORT OF REPORT OF REPORT AND ADDRESS, including estimates, including estimates.	EPAIRING WE LITERING CAS BANDONMENT ompletion or ind Log form	n Well
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Made final cles	10 sx at Surface			s natural	contour	•
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18. I hereby certify that the foregoing is true and correct
Original Signed by Area Superintendent Y. E. STALEY TITLE SIGNED . (This space for Federal or State office use) APPROVED BY ______ CONDITIONS OF APPROVAL, IF ANY: DATE TITLE JUL 23 1964

U. L. GONDON
*See Instructions (60) Reverse Side T ENCINEER

D STATES

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. (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. (Dil Well Other Dry Hole 2. NAME OF OFERATOR Gulf Oil Corporation 3. ADDRESS OF OFERATOR BOX 670, Hobbs, New Mexico 88240 4. Location or Well (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 80 FSL & 330 FWL, Section 17, 19-S, 33-E 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, NT, OR, etc.) 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBBEQUENT REPORT OF: REFAIRING WELL ALTERING CASING MULTIPLE COMPLETE WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE REFAIRING WELL ALTERING CASING MATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE PLUE OR ALTER CASING MATER SHUT-OFF FRACTURE TREATMENT ALTERING CASING ALTERING CASING MATER SHUT-OFF FRACTURE TREATMENT ALTERING CASING ALTERING CASING MATER SHUT-OFF FRACTURE TREATMENT ALTERING CASING ALTERING CASING MATER SHUT-OFF FRACTURE TREATMENT	
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alled dry hole marker. Will advise when location is ready for inspection.	5
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3 / Broom on a Area Engineer January 7 10	74
SIGNED 3. J. Occaseala TITLE Area Engineer DATE January 7, 197	74
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dicated. Obtained permission from Mr. Brown with USGS in Hobbs and plugged and abando follows: Spotted 50 sack Class C neat cement plug No. 1 from 3220' to 3320', across vers; 60 sack cement plug No. 2 from 2900' to 3000', below base of salt at 7890'; 60 seent plug No. 3 from 1350' to 1450', above top of salt at 1465'; 50 sack cement plug No. 2 from 200' to 300', across 8-5/8" shoe at 257' and 20 sack cement plug No. 5 from 50' to stalled dry hole marker. Will advise when location is ready for inspection.	7 a o

(May 1963)	UNITED STATES	SUBMIT IN TRIPLICATES (Other instructions on re-	Budget Burean No. 42-R1424.
	DEPARTMENT OF THE IN	IERIOR verse side)	5. LEASE DESIGNATION AND BERIAL NO.
	GEOLOGICAL SURVI	Ē Y	LCO. 647:30
· CI	INDRY MOTICES AND BEDOL	TC ON WELLS	6. IF INDIAN, ALLOTTER OR TRIBE NAME
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2. NAME OF OPERATO			8. FARM OR LEASE NAME
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SHOOT OR ACIDIZ	B ABANDON*	8HOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Note: Report results Completion or Recompl	of multiple completion on Well etion Report and Log form.)
	enzission to plug & abandon e; with plugs as follows:	this well as it is no los	ger economical
1.	Circulate with brine gel	NOTIFY HORSE IN 1977	n e e e e e e e e e e e e e e e e e e e
۷.	35 sx ⊴ 3∠50'	WITNESS PLUCGING GLASS	One
3.	35 sx. 5 5 casing stub	The second of the state of the	3H2
4.	35 sx = 1400'		• •
5.	35 sx 316'	•	
ć.	10 sx. & surface w/ dry ho		
7.	Clean & level location	16 mg ko	·
f •	clean & level location	APPROVED CUE	• ,
		APPROVED SUBJECT TO REQUIREMENT	For Selection 1999
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	CONTACT TO BEFORE MA	His or the control of the Autor	
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	7 ,		
18. I hereby certify t	bat the foregoing is true and correct		
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SIGNED //	TITLE	1-1-1	PATE -
(This space for F	ederal or State office use)	- DOK	
,pues ask a		1074	1 Killing
APPROVED BY	TITLE	1 131/4	AVDATE
CONDITIONS OF	APPROVAL, IF ANY:	1 11012	M /

*See Instructions on Reverse SideTRICT ENGINEER

	• • •	UNITED STATE	:S	SUBMIT IN TRIPLATE		ved. eau No. 42-R1424.
Mny 1963)	DEPAR	TMENT OF THE	_	R (Other instructions on reverse side)	5. LEASE DESIGNATIO ICO 64790	
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J. H. C. I	Production	Co.			Fod. 18	
. ADDRESS OF OPERA		7	1	()	9. WELL NO.	
	·	w Mexico 88≥10			3	
. LOCATION OF WELL See also space 17 At surface	below.)	n clearly and in accordance	with any Sta	te requirements.	10. FIELD AND POOL,	or wildcat to - Yates
	1980° F	XL & 1980 FEL			11. SEC., T., R., M., OR SURVEY OR ARE	BLK, AND
		•	i.	•	\$18- T 19	-R33E -
4. PERMIT NO.	<u> </u>	15. ELEVATIONS (Show	whether DF, RT,	GR, etc.)	12. COUNTY OR PARIS	H 18. STATE
			•		Loa	ein
SHOOT OR ACIDIZE REPAIR WELL (Other) 7. DESCRIBE PROPOSE	D OR COMPLETED C	CHANGE PLANS OPERATIONS (Clearly state a	XXK	Completion or Recomp	a of multiple completion letion Report and Log for including estimated da	on Well orm.) te of starting any
Request pe	k)* erwission t	to plug & abando		and measured and true vertice	v	
to produce); With pi	lugs as follows:			: :	•
		e with brine gel			÷ .	_
1.	Circulate		,	NOVE OF		
٤.	35 sx ⊌ 3				7	
ے. 3.	35 sx ⊌ 3 35 sx ⊌ 5	5}" casing stub		MELLIEUS AND	<u> </u>	
ے. 3. 4.	35 sx & 3 35 sx & 5 35 sx & 1	5}" casing stub 1400'				
2. 3. 4. 5.	35 sx & 3 35 sx & 5 35 sx & 1 35 sx & 3	5½" casing stub 1400' 307'	3 a monumbro.	METRED 337	(4.83) 1	
2. 3. 4. 5. 6.	35 sx & 3 35 sx & 5 35 sx & 3 35 sx & 3	5½" casing stub 1400' 307' surface w/dry ho	le marke:	METRED 337	.4.12 	√
2. 3. 4. 5.	35 sx & 3 35 sx & 5 35 sx & 3 35 sx & 3	5½" casing stub 1400' 307'		WETHER AT		√
2. 3. 4. 5. 6.	35 sx & 3 35 sx & 5 35 sx & 3 35 sx & 3	5½" casing stub 1400' 307' surface w/dry ho	Arprove	WETHER AT		v
2. 3. 4. 5. 6.	35 sx & 3 35 sx & 5 35 sx & 3 35 sx & 3	5½" casing stub 1400' 307' surface w/dry ho	Arprove	WETHER AT		V

ED STATES SUBMIT IN TRI

ATE.

Form approved. Budget Bureau No. 42-R1424. DESIGNATION AND SERIAL NO.

	GEOLOGICAL SU		(verse side)	I	.co 64790	. SERIAL NO.
SUNDRY NO	TICES AND REF	PORTS ON	LWELLS	6. IF INI	DIAN, ALLOTTEE	OR TRIBE NAM
(Do not use this form for prope Use "APPLIC				-		
Ode MITE		707 Back propo		7. UNIT	AGREEMENT NAM	E
OIL GAS OTHER						
NAME OF OPERATOR	** · · · · · · · · · · · · · · · · · ·			8. FARM	OR LEASE NAME	· .
J. H. C. Productio	n Co.			1	'ed. 18	./
ADDRESS OF OPERATOR				9. WELL	_	
Box 798, Artesia,			te requirements *	10 FIEL	AND POOL, OR	WILDCAT
See also space 17 below.)	O FNL & 690 FW	-	· ·	i i	st Tonto-	
210	0 1.1.2 & 0,0 1	,			T., R., M., OR BLE EVEY OR AREA	
					8-T19S-R33	•
1. PERMIT NO.	15. ELEVATIONS (Show	w whether DF, RT,	GR, etc.)	1	TY OR PARISH	_
					Lea	NM
Check A	ppropriate Box To I	Indicate Natu	re of Notice, Report, o	or Other Date	a .	
NOTICE OF INTE	NTION TO:	1	SUB	SEQUENT REPOR	T OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WEI	LL
FRACTURE TREAT	MULTIPLE COMPLETE		FRACTURE THEATMENT		ALTERING CASI	
SHOOT OR ACIDIZE	ABANDON*	XXX	SHOOTING OR ACIDIZING		ABANDON MENT*	
REPAIR WELL	CHANGE PLANS		(Other)		-1.11	
(Other) . DESCRIBE PROPOSED OR COMPLETED OP			(Note: Report res Completion or Reco	mpletion Repor	t and Log form.)
3. 35 sx 4. 35 sx 5. 50 sx 6. 50 sx 7. 10 sx	@ 3250' @ stub of 5½" @ 1128' @ stub of 8-5 @ 250' @ surface w/d & level locat	7/8" casing	arker			•
I hereby certify that the foregoing i	s true and correct	//			()	21
SIGNED MANY	Mison II	ITLE /a	chi.	DAT	15-11	2.6, 19
(This space for Federal or State offi	се иве)		1	1974 APR	<u> </u>	
APPROVED BY	NY:	TLE	OTTHUR R ALTHUR R	EN CINEER	YE '	· · ·
	*See In	nstructions on	Reverse Side	DD,	A.	

0. 1, from 0. 2, from 0. 3, from 0. 1, from 0. 2, from 0. 2, from Size weight per foot	Threads per inch or perguent role put the more uncome of the more uncome of the more uncome of the come of the c	to	CASI Amount CASI Amount COSS COSS COSS COSS COSS COSS COSS CO	S SANDS Cenote gas by G) No. 4 No. 5 No. 6 NT WATER No. 3, No. 4 NG RECOI	from from from from from from from from	### ##################################	ated To-	Purpose Purpose Purpose Purpose	
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No. 1, from No. 2, from No. 3, from No. 1, from No. 2, from Size casing weight per foot 8-5/8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Threads per inch or priging role full in the weight	to	CASI Amount (255 to 1 to 2 to 1 to 1 to 1 to 1 to 1 to 1	S SANDS Cenote gas by G) No. 4 No. 5 No. 6 NT WATER No. 3 No. 4 No. 4 No. 6 NG RECO	from from from SANDS from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from Cut and pulled from	### ##################################	ated To-	Purpose Purpose Purpose Purpose Purpose Purpose	
No. 1, from No. 2, from No. 3, from No. 1, from No. 2, from Size Weight per foot B-5/8-julying	Threads per inch or priging role full in the weight	to	CASI Amount	S SANDS Cenote gas by G) No. 4 No. 5 No. 6 NT WATER No. 3 No. 4 NG RECORE Kind of shoe	from, from	### ##################################	ated To-	Purpose Purpose Purpose Purpose Purpose Purpose	
No. 1, from No. 2, from No. 1, from No. 2, from Size Weight per foot	Threads per inch	to	MPORTAL CASI Amount	S SANDS Cenote gas by G) No. 4 No. 5 No. 6 NT WATER No. 3 No. 4 NG RECOR	from, from	### ##################################	ated To-	Purpose	
No. 1, from No. 2, from No. 3, from No. 1, from No. 2, from	Threads per	OI to to I to	MPORTAL	S SANDS Cenote gas by G No. 4 No. 5 No. 6 NT WATER No. 3, No. 4	from	to	ated		
No. 1, from No. 2, from No. 3, from No. 1, from No. 2, from		OI to to to I	L OR GA	S SANDS denote gas by G) No. 4 No. 5 No. 6 No. 6 No. 3, No. 4	from from from from from from from from	abando to to	oned		
No. 1, from No. 2, from No. 3, from No. 1, from		OI to to to I	L OR GA	S SANDS denote gas by G) No. 4 No. 5 No. 6 No. 6 No. 3, No. 4	from from from from from from from from	abando to to	onea		
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No. 1, from		OI	L OR GA	S SANDS (enote gas by G)	from	abando	one a		
		OI	L OR GA	S SANDS (enote gas by G)	Rugger and	abando	nea		
Commenced (II	8 - 	OI	L OR GA	s sands d	Kuggets and	abando	ned	, 10	
Commenced at	8					r-y		,	
Commenced de	illing July	_14	, 19	60 Finish	ned drilling Ju	l 17 22nd	چ استخسا	19.60	
The summ	ary on this pa	age is for t	he conditio	on of the wel	l at above date.		(3	C	
Date Jul :				3nea				tor,	
so far as can b	e determined	from all av	zailable rec	ords.				7	
The inform	nation given	herewith is	s a complet	e and correc	et record of the w	zell and al	l work d	lone thereon	זע
					PM Co Line of Sec.				בות
							·	_	
Jompany -W1:	lliam A	a-EdMai J8	o.kh	d SOM ddres ב ונגנים	ss Fort Wor Wildcat (Unde	esignat	ed)	Movt oo	
		•	.an "	11 سمورات	1810 Elec			ng	1
LOCATE ME	LL CORRECTL		LO	G OF (OIL OR C	ias V	VEL	L	
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			2011, 11211				D. C.	c. 4	e Ét
		U. S.	GEOLOGICA FSIA NEW	MEXICO GE	OLOGICAL SUR	VEY AL	JG 5	1960 h	e [
			AUG 1	DEPARTM	ENT OF THE	INTERIO	OR _	1000	,
		1		HODDA	OFFICE OCC INITED STATE	SRE	CEI	VED	
			ECEI	VED.	Lea	SE OR PERM	ит то Рв	OSPECT	
		i			SER	ial Numbei	064 NM-6	Cruces 790 77003	
Form 9-330					II S	. T O	Las	Cmices	

PZA

REPAIR WELL

(Other)

UNITED STATES SUBMIT IN TRIPL (Other instructions verse side)

SUBMIT IN TRIPLI

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

	GEOLOGICAL SURVEY	1C-064790
	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.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	WELL GAS OTHER DTY Fole	7. UNIT AGREEMENT NAME
Ž.	NAME OF OPERATOR WILLIAM A. & SIMARD R. MUUSON	8. FARM OR LEASE NAME Frieral 18
3.	ADDRESS OF OPERATOR	9. WELL NO.
	302 Carper Suilding, Artesia, New Mexico	8 2 2 2
	LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 helow.) At surface 950* frees North and East Lines Sec. 18-195-338	10. FIELD AND POOL, OR WILDCAT WEST TCTEO (Y-SR) 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA SEC. 18-198-33E
14.	PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH :13. STATE
	3650 D.F.	Lea Now Mexico
16.	Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
	TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE PULL OR ALTER CASING WATER SHUT-OFF FRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING	ALTERING CASING ABANDONMENT*
	SHOTTING ON ACTUALING	

(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 pertiproposed work. If nent to this work.) *

(Other) _

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.

CHANGE PLANS

18. I hereby certify that the foregoing is true and correct	et		· .
SIGNED Kalph Loray	TITLE _	Consulting Engineer. DATE	Nev. 30, 1964
(This space for Federal or State office use)		Arina	-
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE _	APPROVE O	\
CONDITIONS OF ALL MOVAG, IF ANT.		APR × 1965	

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

T. 111.

12.

Form 9-330

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

FFICE OCC VITED STATES RECEIVED

ARTESIA, NEW MEXICO GEOLOGICAL SURVEY

D.C.C. Neck WELL /peation

LOG OF OIL OR GAS WELL LOCATE WELL CORRECTLY 1810 Electric Building Company William A. & Edward R. Hudsonddress Fort Worth, Texas Lessor or Tract Federal 18 Field Wildcat State No. Well No. 6 Sec. 18 T. 19S R. 33E Meridian NMPM County Lea Location 990 ft. S. of N Line and 2045ft. E. of W Line of Sec. 18 Elevation 3649 DF 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. the contract to Signed Title Joint Operator DateJuly 27th, 1960..... 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 ZENES 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 Perforated Size casing Threads per inch Amount Kind of shoe Cut and pulled from 522 ret. s ate line of material and result of neure no as helling. In hanna anmuleta historio (1) and (1) Blance stated a decided dates of redefilities, if there were any changes made in the casing state fully, and if any case rates shall be in the case of the case MUDDING AND CEMENTING RECORD

Size casing	Where set	There set Number sacks of cement Method used		Mud gravity	Amount of mud used
8-5/8		150			
		1	1		,
		•		i	j i

Forn	o 9-3	30					. •
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	OCA	TE !	WEL	LCC	RRE	CTL	

RECEIVED

U. S. LAND OFFICE Las Cruces SENIAL NUMBER LC-264790

AUG 3 0 1960

Instruction to Charles

U. S. GEOLUGICAL SURVEY O CED ARTESIA, NEW MEXICO UNITED STATE DEPARTMENT OF THE INTERIOR

					GE	OLOGICAL SUR	VEYD. IS	OFFICE	· Ne	£
LC	CATE WEL	L CORRECTL'		LO	G OF (OLOGICAL SUR	GAS V	VELI	L lóca	of i
Comp	onw Will	iam A & E	Parara P	Dudgen	Addre	ss 1810 Elect	ric Bldg	. Ft	Worth To	vae
-	_					ndesignated				AUS.
						P.MCo				1
Locat	ior 1980 F	ft. Secre	Lii Line a	næ60 ft.	W. OE E	Line of Sec. 18	uniye	Eleva	ation 3,652	DF
T	he inform		herewith i	s a complet vailable rec	te and correc	et record of the w				
Date	August	29, 1960		- 2.			aul+4na	Protin	J.	
			age is for	 the conditio	on of the wel	l at above date.	saresus-	- 	361	
		_	_			ned drilling	June_30) ,	, 1960	V
			O		S SANDS C					
r TA	43	280	4. 3.3		enote gas by G)	, from		÷		
No. 2,	from		to		No. 5	, from	to	\ \		
No. 3,	from					, from	to	<u> </u>		
	•				NT WATER		_	•	** **	
						from		2.5	, ,	
No. 2,	from		to		No. 4,	from	:to			
***				CASI	ING RECOR	RD		- 8		
Size	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perfor		Purpose	
	l	l	Har III to tak	105 (267) 8	are kine of the	chai bseu, pssidon,	From-	or house	- Source 100 1	
	<u>μ</u> τη	Car file rell g	ice its e'ze :	201	िर्मान वेनी मन	notice in the casing been dyneralted <u>fr</u> orisi used, position,	ह गुरात र द्वा ५ वर्ग ६ वर्ग	position.	Partiace	
$1/2^{-3}$	17.40.16	1 J. J			والمعاملة لياك والمساحات	- Selection and Alberta Collection W.	LEWALLE	עציון בספי	was character	
1/2 :	of the gree	ine trapartener	to lure a c	corntlete lust	ary of the well.	Tighse state in dof	113287	@Gegrii	ing, together	
1/2 1/2	of the gree	ias importance	to lere a c	milities incl	ary of the well.	ARTE	3287	3300 ფტ∈ე⊔ე		
1/2 1/2 1(1)	of the gree	19-20-read	to lere a c	priplete liist	ary of the well.	ARTE	113287	3300 ფტ∈ე⊔ე		
H in	el the gree	ies imperune Tuppen and	to lure a	FORY C	CIT OF C	A BETT	3287	3300 ფტ∈ე⊔ე		
1.72	where s	ies limportanes	to lure a	DING AND	CIT OF C	ARTE	3293 3293 3305	3300 ფტ∈ე⊔ე	ralatine office	
Size casing	Where s	et Numb	MUDE	DING AND	CEMENTI	NG RECORD	3293 3293 3305	3300 10*****	ralatine office	
I(!s	i of the gree	et Numb	MUDI	DING AND	CEMENTI	NG RECORD	3293 3293 3305	3300 10*****	ralatine office	

Producing oil well

R. E. O. C. COPY

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4 Approval expires 12-31-60. Land Office LC-064790

HH-077003

AUG 1 7 1961

A. R. GICT	•	:	• •		- m f.
TING DIST SUNDRY	NOTICES	AND	REPORTS	ON	WELLS D. C. C.

No.	* *
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
	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.
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	

		July	14th		., 19.00
Federal 18 Well No is located	_ 1 580ft.	from $\left\{ \begin{array}{l} \mathbf{N} \mathbf{X} \\ \mathbf{S} \end{array} \right\}$ line a	and .2039. ft. from	$\left\{egin{array}{c} \mathbb{E} \ \mathbb{W} \end{array} ight\}$ line of sec.	13
NE/St Sec. 18	105 (Twp.)	335 (Range)	NIFN (Meridian)		
W11des(held)			New (Sta	Mexico te or Territory)	

The elevation of the derrick floor above sea level is 363? ft.

DETAILS OF WORK

ected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cement-ing 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.

Company WILLIAM A. & IDVARD R. HUDSON Address 1810 Electric Building Fort Worth, Texas Title Joint Operator

GPO B 62040

UNIT STATES SUBMIT IN TRIPLIOR (Other instructions of reverse side).

Form approved.

Rudget Bureau No. 42-R1424.

EASE DESIGNATION AND SERIAL NO.

,		MENT OF THE INTER	IOR verse side)	5. LEASE DESIGNATION AND SERIAL NO. LC-064790 (Non-Unit)
	(Do not use this form for propo	TICES AND REPORTS (osals to drill or to deepen or plug cation FOR PERMIT—" for such p	back to a different reservoir.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.	OIL GAS WELL OTHER	3	NEW PORT	7. UNIT AGREEMENT NAME
2.	NAME OF OPERATOR		111 JAN 1812/2	S. FARM OR LEASE NAME
3.	WILLIAM A. & EDWA	RD R. HUDSON	ニー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Federal 18
	Box #198, Artesia	, New Mexico 88210	J. S. GEOLOGICAL SUBARY	2
4.	LOCATION OF WELL (Report location of See also space 17 below.)			10. FIELD AND POOL, OR WILDCAT
	At surface 1980* from nor	th and 2039' from we	st lines of	West Tonto-Yates-7 River
		_	18-19S-33E.	SURVEY OR AREA
				Sec. 18-19S-33E.
14.	PERMIT NO.	15. ELEVATIONS (Show whether DE	F, RT, GR, etc.)	12. COUNTY OF PARISH 13. STATE
				Lea New Mexico
16.	Check A	ppropriate Box To Indicate N	lature of Notice, Report, or C	Other Data
	NOTICE OF INTE	NTION TO:	SUBSEQU	ENT REPORT OF:
	TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
	FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
	SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
	REPAIR WELL (Other)	CHANGE PLANS		of multiple completion on Well etion Report and Log form.)
	and set packer at	3273'. Tested below On June 27, 1971, de	to 3284' with a 4-3/4" The Put on pump. Produce Produce 2284 to 3	luction declined to
		ransferred to David C L1 be left in present	condition.	August 1, 1971, who
	•			
				•
				•
18.	I hereby certify that the foregoing i	strue and correct		•
	SIGNED Kalph L	The .		
		TITLE C	onsulting Engineer.	DATE Tan. 12. 1972
	(This space for Federal or State off		onsulting Engineer.	DATE Jan. 12, 1972
	(This space for Federal or State offi	ice use)	onsulting Engineer.	DATE Jan. 12, 1972
	(This space for Federal or State offi APPROVED BY	ice use)	onsulting Engineer.	DATE Jan. 12, 1972
	APPROVED BY	ice use)	(AFFIFE)	ESP DATE CO.
	APPROVED BY	ice use)	(AFFIFE)	DATE Jan. 12, 1972 FGP DATE (1) 9 1972

*See Instructions on Reverse Side. S. GEOLOGICAL SURVEY Producing oil Well HOBBS, NEW MEXICO

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<u> </u>					

VU. S. LAND OFFICE LAS CITIZES
SERIAL NUMBER 067847
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WE

Check Jocation

LOCATE WELL CORRECTLY

•		
Company Hudsor	- & Hudson, Inc.	Address 1810 Electric Building.
Lessor or Tract \$2	unders "A"	Address 1810 Electric Building, Fort Worth, Texas Field Wildcat State New Mexico
Well No1 S	ec. <u>19</u> . Т <u>19</u> 5. R. 33 <u>E</u> М	leridianEep
Location ft from	N. of Line and 1980	ft. W. 2f Line of Sec 19 Elevation
The information	given herewith is a comp	lete and correct record of the well and all work done thereon
so far as can be dete	rmined from all available r	Signed Substitution
	h; 1957	TitleSecretary=Treasurer-tion of the well at above date.
-		•
Commenced driming	<u> </u>	¹⁹ 57 Finished drilling March 2nd , ¹⁹ 57
	OIL OR G	GAS SANDS OR ZONES
	•	(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					

CASING RECORD

Size	Weight	Threads per	Make	Amount	Kind of shoe	Cret and multiple Com-	Perfora	ted	Purpose	
casing	per foot	inch	маке	Anicunt	Aina of since	Cut and pulled from	From-	То	A UI puse	
8-5/8	11 7 21 7	ts 92/		1-227-21	,				DayUala	
2 7	OC T	Tangli wee	put in to te	1953/401.	tate king of m	s been drnamite!, g steria, usec, position	, and results	o. Lumi	"Diabauore	
• (មរៈ : : ii	acj. 200 cm	Koin diam'ell, g	ve its gize	and location.	If the well ha	je mude in the gesin is is been dynamite <i>i</i> , g	ve date, six	e, pasitio	i, and number	
11. 11.	s of the gro	afest importanc	e to nave a	complete his	ory of the wel	. Plause state in de	tan the cath	e of redr	Ling, 105: Ter	
			Fal	EAUDA U	e car cb	CVE MEIN	U-19963-2 4.	E. GCVEFAUL	_ LL - K11MB (EE 107	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
					·
	1				
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PSA

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MO. OF COPIES REC	EIVED	İ			ř)				A.
DISTRIBUTION	ON				JEW ME	אוכס סוו י	CONSERVA	TION COM	MCCIO					·
SANTAFE				•			FOR ALL			•		Form C-10 Superseder	-	C-104 and C-1
FILE					,	VE ADED!	AND	UNADEL				Effective 1		-104 and C-1
U.S.G.5.				ITHOP	17 A T I O	N TO TD	ANSPORT	OIL AND	MATE		. A C			
LAND OFFICE			^'	OTTION	١٢٨١١٥	IN IO IK.	ANSI OK I	OIL AND	NATU	KAL G	AS			
	OIL								1		.,	, ~ `	:	
TRANSPORTER	GAS											1 2 1	,	
OPERATOR	L								٤				.,	
PRORATION OFF	ICE								C				•	
Operator		——									•			
Collier & Co	llier											•		
Address														
P.O. Box 798	. Art	esia	New M	evico	88210	1								
Reason(s) for filing (Check p	roper b	ox j	CNICO	00210	<u> </u>		Other (Pleas	se explai	n /		<u> </u>		
New Well			Cho	inge in T	ransporte	r of:		•	•	•				,
Recompletion	\Box		Oil			Dry G	ıs 🗍							
Change in Ownership	Ţ			inghead		Conde	75							. [
DESCRIPTION O	F WEL	L ANI		ll No. Po	ool Name,	Including F	ormation		Kind o	f Lease				Lease No.
Federal 19			}	- 1		=	outh 7 R				or Fee	Federal		
Location					111111111111111111111111111111111111111	aces, so	Juli / K	tivers	J. J. J.			rederal	NM	<u>1#077004</u>
Unit Letter	N	:3	30Fe	et From 7	The _SOI	uthLir	ne and23	10	Feet	From T	he <u>W</u>	est		
Line of Section	19	Т	'ownship	19		Range	33	, NMPI	м,		Lea			County
DESIGNATION OF Name of Authorized Texas - New Me	Transpor EXICO	ter of C Pipe	u (X) Line	or Cond	ND NAT		Address (C	ove address OX 1510 Give address	. Midl	land.	Texa	s		<u>, </u>
If well produces oil of give location of tank	s.	···	Unit N	Sec.	Twp.	Rge. 33		naling orde		When	n			
Tinis production is COMPLETION DA		Ried A	ATITI IURI IL	om any c	mer lea	ac or poor,	Rive commi	merring orde		•				
Designate Typ		mplet	ion - (X)	Oil	Vell I	Gas Well	New Well	Workover	Deep	en	Plug Ba	ck Same	Res'v.	Diff. Restv.

Total Depth

Top Oil/Gas Pay

Date Compl. Ready to Prod.

Name of Producing Formation

П.

II.

IV.

Date Spudded

Perforations

Elevations (DF, RKB, RT, GR, etc.)

Producing oil 2 995

P.B.T.D.

Tubing Depth

Depth Casing Shoe

(May 1963)	DEPARTN	COther Instructions on reverse side)	Budget Bures 5. LEASE DESIGNATION	u No. 42-R1424.		
	G	17: 077004				
(Do n	of use this form for propos	ICES AND REPORTS als to drill or to deepen or plug TION FOR PERMIT—" for such p	back to a different reservoir.	6. IF INDIAN, ALLOTTEI	E OR TRIBE NAME	
OIL X	GAS OTHER	7. UNIT AGREEMENT NA	ME			
2. NAME OF	PERATOR			8. FARM OR LEASE NAM	1 E	
	David C. Co	llier		Federal l	.9 :	
3. ADDRESS (F OPERATOR			9. WELL NO.		
	Box 798. Ar	tesia, New Mexic	o 88210	1		
4. LOCATION	of WELL (Report location cloace 17 below.)	early and in accordance with any	y.State requirements.*	10. FIELD AND POOL, OR WILDCAT		
At surface				South Tonto, Yates		
	330' from Sou	th line & 2310'	from East line.	11. SEC., T., R., M., OR B SURVEY OR AREA Sec. 19	LK. AND	
				T-19-S	, R-33-E	
14. PERMIT N),	15. ELEVATIONS (Show whether D	F, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE	
				Lea	III_	
16.	Check Ap	propriate Box To Indicate 1	Nature of Notice, Report, or C	Other Data		
	NOTICE OF INTENT	SUBSEQU	ENT REPORT OF:			
TEST WA	TER SHUT-OFF P	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W		
FRACTUR	TREAT	IULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CA		
SHOOT OF	ACIDIZE	BANDON*	SHOOTING OR ACIDIZING	ABANDONMEN		
REPAIR W	ELL C	HANGE PLANS	(Other) Set prod:	of multiple completion of		
(Other)		etion Report and Log for:	m.)			

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.

3. I hereby certify that the foregoing is true, and correct		
SIGNED JOSEPH A Sliana	TITLE Geologist	DATE 8-21:-71;
(This space for Federal or State office use)		
APPROVED BY	TITLE TITLE	C. BATE
*Se	ee Instructions on Reverse Side EP 3 1974	
	201	SURVE /

Producing Oil WROS. GEOLOGICAL SCICO
HOBBS, NEW MEXICO

N. M. O. S. C. COPY Budget Bureau No. 42-R355.4. Approval expires 12-31-60. Copy to: Roswell NIMOCCIZ) RECEIVED U. S. LAND OFFICE New Mexico SERIAL NUMBER NM 077006

SERIAL NUMBER NM 077006

SERIAL NUMBER OF PERMIT TO PROSPECT

FEB 1 1963

CICAL SURVEY HNITED STATES SERIAL NUMBER NM 077006 FEB 1 1963 WHITE OF THE INTERIOR ECEIVE

U. S. GEOLO DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY 0. c. c. eres Belomits 3333 ARTESIA, OFFICE LOG OF OIL OR GAS WELL LOCATE WELL CORRECTLY And the seal and grown conto. Company Kewanee Oil Company Address P.O. Box 3786, Odessa, Texas hillips 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. \[\bigcolumn{N}{N} \] of S __ Line and 1650 ft. \[\bigcolumn{R}{N} \] of E _ Line of Section 24 _____ Elevation 3602! GL rillips The information given herewith is a complete and correct record of the well and all work done thereon d Trea so far as can be determined from all available records. Title Division Superintendent.... Date February 8, 1963 The summary on this page is for the condition of the well at above date. Commenced drilling December 2 19.62 Finished drilling December 12. OIL OR GAS SANDS OR ZONES (Denote gas by G). No. 1, from 2914 to 3092 to to to to No. 2, from to start had seen had No. 5, from save labeled to No. 3, from 17-11-03 to 300 Cit 128 7767 No. 6, from 2011, 10 30 IMPORTANT WATER SANDS Bour 1 260 No. 3, from the contract 2003, tors No. 1, from CASING RECORD ្រុក ប្រទេស ភេឌីសាស្រ្ត Perforated Weight per foot Threads per inch Cut and pulled from Kind of shoe Amount ndersign e 8 2010 tots 1 - Nigs or help ged were quell to tes 18 Watter, self 11490 12 fill all used, position, and require of pump of the 18 control 5-1/2 by to 148 to 188d and 188 coins 3190'6' Baker ice mad in the coins 2972. 3092' Oil String It is of the greatest importance to have a domplete history of the well. Please state in detail the dates of redriging, together HISTORY OF GIL OR GAS WELL... MUDDING AND CEMENTING RECORD Size Mud gravity Where set Number sacks of cement Method used Amount of mud used 8-5/8". 301.261 Pump & Plug -Gement Girculated Pump & Plus -Gement-Girculated

			•			N.	M. O. C.	C. COPY	Buc	dget Bureau No. proval expires 12-	42-R355.4.	
Form 9-	-830			F	ORM.	ATION	RECO	ist oc				Mexico.
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Ti	he infor	matio	n given	here	with is	a comp	lete and c	orrect re	ecord of the	well and all	l work d	one thereon
so far s	as can t	e det	ermined	fron	allav	ailable r	ecords. Signed	1	7 Stu	clan	0 1 1 2 12 Q	
	,								Title Di			
ጥ	he sumt	nerv (on this n	9.0'A	is for t	he condi	tion of the	well at	ahove date			
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Buresu No. 42-R355.4 al expires 12-31-60. OCT 3 0 1963 U. S. LAND OFFICE _____Kon Herico HUBBLE SERIAL NUMBER 07700 MAIN OFFICE OCC. LEASE TECHNOLOGICAL COLOR S3-NOV 6 DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY v_{\bullet} s. \exp_{v} HOBBS, WE'S LOG OF OIL OR GAS WELL LOCATE WELL CORRECTLY Company william A. & Roserd R. Budson Address 308 Carper Bldg., Artesia, New Mexico Lessor or Tract Federal 19 Field South Tonto-Fates State Mexico Well No. 1 Sec 19 T. 198 R. 338 Meridian Burd County Lea Location 350 ft N of S. Line and 2310 ft E. of W Line of Sec. 19 Elevation 3603 LF 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. Cayle L/ Tray Signed . itle Consulting Engineer. Date October 29 1963 The summary on this page is for the condition of the well at above date. Commenced drilling Sept. 26, 1963 Finished drilling Oct. 20, 1963 OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 4, from ... No. I. from No. 5, from _____ No. 2, from No. 6, from _____to No. 3, from IMPORTANT WATER SANDS No. 3, from ... 548 to -560 No. 1, from ... No. 4, from _____ No. 2, from -CASING RECORD Kind of shoe. Cut and pulled from Amount Make of she greatest in initiates to have a comparation of the well. Fleny state in detail the deligh of restrictions in the party of the well is heart the delight of the delight of the well is heart the control of the delight of the de 13-1/8 CAVE MUDDING AND CEMENTING RECORD Where set Amount of mud used Number sacks of cement Method used Mud gravity 100 ax. 4% Get regular plus

PLUGS AND ADAPTERS

SHOOTING RECORD

Heaving plug-Material

Adapters-Material

Length Depth set

NOTEN

TOTALLESST

F.38432 -

FORMATION.

Declaration of Owner of Underground Water Right-

	CP-11 -					•	
Dec	Misc-2-L-60	Book	Date	received Ma	rch 22,	1963	
	L. Vernon E. Sta depose and say that the follow on the reverse side of this for that I have carefully read eac my knowledge and belief.	rm and submitte	d in evidence	or ownershi	nd that the	ame are true	e to the best of
	1 - 44 1 - 45 1 - 4		· Amor	Suncaint			, declarant. ican Petroleu
	•		Ares	. Superint	endent -	Pan Amer	Corp.
	Subscribed and sworn to before	re me this	20th	day of	March		// A.D. 19 <u>63</u>
	Subscribed and sworn to before My commission expires	8-8-64			-50	ixink.	Otary Public
	,						otary Tubile
	·		STATEME				
۱.	Name of water right owner	Pan Ame	rican Pet	roleum Co	rporation	<u> </u>	-
	ot Box 68 - Hobbs,						
	County of						
2.	Source of water supply	Shall	ow water	basin	ein)		
	located in No nat			illow water ba	siii)		
	(n	ame of undergroup	nd stream, vall			h = *	
3.	The well is located in the						
	of section <u>18</u>					33-E	, N.M.P.M.
	on land owned by						•
٤.	Description of well: date dril	lled Oct. 27.	1959 drille	Murrel	Abbott	depth	870 feet.
	diameter (outside) of casing	7"	inches; origin	al flow (pu	mped) 21		gal, per min.;
	present flow (pump) 21	gal. per	min.; maxir	num pumping	g lift	520	feet;
	make and type of pumpBe	sem Unit wit	h sucker	rods end	common u	orking bb	1
	The second secon			· · · · · · · · · · · · · · · · · · ·	·····		
•	make, type, horsepower, etc.,	of power plant_	Int.	U-30, 30	OHP		
:							
Į.	Fractional or percentage inter	rest claimed in	well	100%			
5.	Quantity of water appropriate	ed and beneficia	lly used		re feet		-
	for water for oil	l wall drill	ing	(feet	-	feet per acre	
c	Acreage actually irrigated and		17-	ne			purposes.
υ.	located and described as follo	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,):		acres,
ı	<u> </u>	(00001100 02	.,	Acre			
į	Subdivision	Sec.	Twp. Ra	nge Irrigate	:d	Owner	<i>S</i> (
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						<u>G</u>	ω <u></u>
	(Note: location of we	-			-	•	
	Water was first applied to be			-		-	
	has been used fully and cont						
35.	except as follows: <u>Water</u>						
	· · · · · · · · · · · · · · · · · · ·				2008 100	CIEL MOGO	
_f =	en Tonto Unit Area.						
	Additional statements or expl			_	-		
	cur Vest Tonto Unit		-				
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ii.	stance to avoid expen	rivo truckir	ie end les	: 111556 C	muuung	or ocab s	ests. unen
30	being used by Pan li	restican, the	Traice La	'e हैक्टक य ह	red by of	aniqo wed	tors on a no
	. Established						

PROVER NEED TO THE PROPERTY OF

(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	
Lease No. 11M 01	235 -D
Unit REC	EIVE
MAR	7 1962

SUNDRY NOTICES AND REPORTS ON WELLS C. C.

NOTICE OF INTENTION TO CHANGE PLANS	 SUBSEQUENT REPORT OF WATER SHUT-OFF	-X
į l		

(INDICATE A	BOVE BY CHECK MARK NATURE OF RE	PORT, NOTICE, OR OTHER DATA	A)
		Febru	ary 22 , 19 6
• E. BOMDURALT Vell No is located		and 990 ft. from {	E line of sec.
2/4-SE/4, Sec. 13 (1/2 Sec. and Sec. No.)	7-19-5, 1-32-8	MA	- المن المن المن المن المن المن المن المن
est Tonto Yates-Seven R	ivers Lea	(Meridian)	w Mexico
(Field)			e or Territory)
ne elevation of the derrick flo	or above sea level is 363	ft. ADB	e or Territory)
	DETAILS OF W	ORK	
bandoned as follows: Cement plugs sat as	follows: 25 sx at]	3215'; 25 sx at 3	251; and
10 ex at surface.	All intervals filled	with heavy mud-l	aden fluid.
Out and pulled 42m	casing from 320'. En	rected 4' PXA Har	k er.
Restored ground to	its natural contour.		
			FEB 26 1962
I understand that this plan of work mu	st receive approval in writing by the	Geological Survey before oper	ations may be commenced.
ompany Pan America			<u></u> المساوية المساوية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادية المادي
ddress Box 68			

I understand t	that this plan of work must receive approval in	n writing by the Geological Survey before operations may be commenced.	tiletai Siina
Company	Pan American Petroleum	Corporation	
Address	30x 68		
	Hobbs, New Hexico	Original Signed by: By V. E. STALEY	
		Title Area Superintendent	
	······································	27 D GPO 86	2040

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Form 9-331 (May 1996)	UNITED DEPARTMEN DF	STATES THE INTER		N TEMPLICATE	From approved, Burger Face in No. 42-81 5. LEASE DESIGNATION AND SERIAL N
	-	AL SURVEY	TOTE VERSONIE,		
SIII	NDRY NOTICES AN	D REPORTS (ON WEELS	0. :	B. IF INDIVITION THE IN THE PA
	is form for proposals to drill or Use "APPLICATION FOR PI			reserveir.	
1.				8	7. UNIT AGREEMENT NAME
WELL X WELL	OTHER		, ————————————————————————————————————	<u></u>	
2. NAME OF OPERATOR	L ACTROLEUM CORROZÁTIC	7 N		01.	S. FARM OR LEASE MAKE
PAN AMERICAN 3. ADDRESS OF OPERAT	N PETROLEUM CORPORATION				J. Wall No
ECX 68, HOBBS		•	•	* 4	
4. LOCATION OF WELL See also space 17 be	(Report location clearly and in a	accordance with any	State requirement	5.•	10. FIELD AND COOK OR WILL CAT
At surface	•	,			TOTAL YALES SELEN RU
ADIA! This	x 330 FEL S	00 13/1/01	1.H SE/	NELA	11. SCC., W., d., N., OR BLY., AND SURVEY OF AUG.
2010 FN %	x 330 FER 3	ex. 15(0111	111,00,4	1.0/4)	13-19-32 AMS
14. PERMIT NO.	15. ELEVATIO	ONS (Show whether DE	F. RT. GR. etc.).		12. COUNTY OF THE SET 13. SMATE
		5645_K	D.6		L LEE LINIY
16.	Check Appropriate B	ox To Indicate N	dature of Notice	e, Report, or C	Other Data "
	NOTICE OF INTENTION TO:		·	នបននេះប្	UENT ESPOET OF:
TEST WATER SHUT	PULL OR ALTER	CASING	WATER SHO	JT-OFF	hapaining well :
FRACTURE TREAT	MULTIPLE COM	PLETE	FRACTURE '	TREATMENT	TALTURING CASING
SHOOT OR ACIDIZE	ABANDON*		ì	OR ACIDIZING	ABANDONMENT®
REPAIR WELL (Other)	CHANGE PLANS		(Other)(North	: Report results	of multiple completion on Well
17. DESCRIBE PROPOSED	OR COMPLETED OPERATIONS (Clea	rly state all pertinen	t details, and give	pertinent dates.	letion Report and Log form.) Including estimated date of scarcing :
proposed work. nent to this work.) *	give subsurface local	tions and measured	and true vertica	al depths for all markers and sozes be
11/010 2	bandoned	11 20	60		
- US FER A		//- 20	~03		
YE HOL	1 follows:	. ,			
200	Leley Roll	e Wm	with.		
501	50.54 Comen	1 0/129	P3D 324	经-254	2 (<i>PELP</i> 5 3263 - 326
C da a a	4/2"@ 375	2 315		10012	
	4/2 6 0 10				
25 2	4 @ 345 (<	1/2" (ED) K	ing oxu	٠٠٠٠.	
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7	1 2/2	بر میرید مند	e De		
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10.13					
16. I hereby certury that	at the foregoing is true and cor.		EA SUPERINTENI)ENT	The second second
	(>).	TITLE	TA SONEKHALCIAL	/L1 (1	DATE THE LANGE
SIGNED	deral or State office use)				
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(This space for Fee APPROVED BY CONDITIONS OF A CONDITIONS OF			on Revenu Si.		₩ Ξ ₿ ³⁷⁷⁷
(This space for Fee APPROVED BY		*See Instructions	on Reverse Sid		1970

Santa Fe, New Mexico

(Form C-104) Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well.

New Well Recompletion

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 9-23-60 (Place) (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) I , Sec. 13 , T 198 , R 32E , NMPM., ... Lea County Date Spudded 8-31-60 Date Drilling Completed Elevation 3643 RDB Total Depth 3282 Please indicate location: Top Oil/GXXPay 3248 Name of Prod. Form. Yates PRODUCING INTERVAL -Perforations 3258*-62* w/2 JSPF E _Casing Shoe _ 3272 3260 Open Hole OIL WELL TEST -K Natural Prod. Test: bbls.oil, bbls water in hrs, Test After Acid or Fracture Treatment (after recovery of volume of oil equal to-volume of M N load oil used): 98 bbls.oil, 0 bbls water in 24 hrs, =: min. Size GAS WELL TEST -Natural Prod. Test: MCF/Day; Hours flowed Choke Size Tubing Casing and Cementing Record Method of Testing (pitot, back pressure, etc.): Size Test After Acid or Fracture Treatment: MCF/Day; Hours flowed Choke Size Method of Testing: 8-5/8" 315 175 circ Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and 4-1/2" 700 3272 Acidized w/500 gallons 15% regular-Casing Press. Plate first new Press. F-120#bil run to tanks 9-11-60 2-3/8" 3260 Oil Transporter Indiana Oil Purchasing Company (Trucks) Gas Transporter Vented and being flared. 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 19 Pan American Petroleum Corporation (Company or Operator) OIL CONSERVATION COMMISSION By:..... (Signature) Area Superintendent Send Communications regarding well to: Name J. W. Brown Address Box 68, Hobbs, New Mexico

D STATES

P. O. Box 460

<u> Hobbs, NM 88240</u>

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SUBMIT IN DUPLICA structions on reverse side)

Production Research

Ponca Cit

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

DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY NM-01235-D G. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 1a. TYPE OF WELL: WELL X WELL DRY X 7. UNIT AGREEMENT NAME b. TYPE OF COMPLETION: DEEP-Abandon WELL S. FARM OR LEASE NAME 2. NAME OF OPERATOR Bondurant Federal Amoco Production Company 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT P. O. Drawer A, Levelland, TX 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). West Tonto Yates 7 Rivers 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 2310' FSL X 1980' FEL, Sec 13, (Unit J,NW ¼, SE ¼) At top prod. interval reported below 13-19-32 At total depth DATE ISSUED 12. COUNTY OR 14. PERMIT NO. 13. STATE NM Lea 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.) * 19. ELEV. CASINGHEAD 3628.5 GR 9-3-78 9-10-78 20. 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 10-3350' 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* WAS DIRECTIONAL SURVEY MADE No 26. TYPE ELECTRIC AND OTHER LOGS RUN WELL COBED Compensated Neutron Formation - Oval Laterlog Micro SFL No 28. CASING RECORD (Report all strings set in well) DEPTH SET (MD) HOLE SIZE CEMENTING RECORD CASING SIZE WEIGHT, LB./FT AMOUNT \PULLED 12-1/4" 345' 225 sx Class C 🙃 ·8-5/8" 24# LINER RECORD TUBING RECORDO 29 30. рерти вет (жр)с SIZE BOTTOM (MD) SACKS CEMENT* SIZE PACKER SET (MD) TOP (MD) HON 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 33.* PRODUCTION WELL STATUS (Producing or shut-in) DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Abandon DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. GAS-MCF. WATER-BBL. GAS-OIL RATIO FLOW, TUEING PRESS CALCULATED 24-HOUR RATE CASING PRESSURE OH BRL CAS-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 TITLE Assist. Admin. Analyst 9-18-78 SIGNED _ DATE *(See Instructions and Spaces for Additional Data on Reverse Side) 0+4 - USGS - H 1 - L. P. Thompson 1 - F. R. Conley

UNI D STATES TOUBLE STRUCK OF THE INTERIOR STRUCK GEOLOGICAL SURVEY

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

ctions on						_
rse side)	5.	LEASE	DESIGNATION	AND	SERIAL	ı

WELL CC	MPLETION	OR RECO	MPLETION	REPORT	AND	LOG*	6. IF INDIAN	, ALLOTTEE OR	TRIBE NAME
1a. TYPE OF WE	LL: OIL WEL	L GAS WELL	DRY .	Other	7 1/1	EM	7. UNIT AGR	EEMENT NAME	
b. TYPE OF CO	WORK DEE	P- PLUG	DIFF.	other E C	图》	一一	S FARM OR	LEASE NAME	
WELL	OVER L EN	L BACK L	resvr	Other 12 (to	2 1	19	1		eral
Amoco	Production	Company		11/1	$\Gamma_{J\dot{\theta}}$	CURVE	19. WELL NO.		
3. ADDRESS OF OP	ERATOR				a nGl	CALEXICO		5	
P. O.	Box 68, Hot	obs, NM 88	240	s C	EOLONE	MWC	10. FIELD AN	D POOL, OR WI	
At surface	ELL (Report location	n clearly and in (Sec 12 (Ilnit JH	111/4 SE	- /4)	West	Tonto Pen	
At top prod. in	Production Production BOX 68, Hot ELL (Report location 1980' FSL 8 sterval reported beliance)	k 1500 TEE	. Sec. 12 (01110 0, 1	11177 31	-/ 7 /	OR AREA	,,	
At total death							12-19	-32	
At total depth			14. PERMIT NO).	DATE ISSU	ED	12. COUNTY	or 13.	STATE
			-	1			Lea	l NM	1
15. DATE SPUDDED	16. DATE T.D. RI	EACHED 17. DAT	E COMPL. (Ready	to prod.) 18	. ELEVATIO	NS (DF, RKB,	·	19. ELEV. CA	
3-18-79	5-4-79		6-5-79			74.5 RDB			
20. TOTAL DEPTH, MD	& TVD 21. PLUG	G, BACK T.D., MD &	TVD 22. IF MU HOW !	LTIPLE COMPL.	, 23	DRILLED BY	ROTARY TOO	LS CABL	E TOOLS
13,689'		13,640'				 →	0-TD	1.05	
24. PRODUCING INTE	ERVAL(S), OF THIS	COMPLETION-TOP	, BOTTOM, NAME (MD AND TVD)*					IRECTIONAL Y MADE
13 326'-1	3,341' Morr	.OM						No	
26. TYPE ELECTRIC	AND OTHER LOGS F	UN			·····			27. WAS WELL	CORED
Dual Late	erolog Micro	SFL, Comp	Neutron Fo	orm Densi	tv			No	
28.			NG RECORD (Re			ll)	<u></u>		
CASING SIZE	WEIGHT, LB./		T (MD) H	OLE SIZE		CEMENTING		AMOUN	T PULLED
13-3/8	48#	445'		17-1/2		SX Class			
9-5/8	36#	5002'		12-1/4				<u>00 SX Cla</u>	
5-1/2	17# & 20	13,688	<u>'</u>	8-3/4	1800) SX Trir	nity Lite	<u>; 780 SX</u>	<u>Class H</u>
20		LINER RECORD		`	1 20		NIDING PROC	1	
29.	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MI	30.		DEPTH SET (M		SET (MD)
BILL	101 (315)		SACKS CEMENT	SCREEN (M)		3/8"	13178'	PACKER	
			- · · · · · · · · · · · · · · · · · · ·				10170		
31. PERFORATION RE	CORD (Interval, siz	e and number)		32.	ACID, S	SHOT, FRACT	URE, CEMENT	SQUEEZE, E	TC.
				DEPTH INT	ERVAL (M	D) AM	OUNT AND KIN	D OF MATERIAL	USED
13,326'-1	3,341' w/4	JSPF	•						
33.•			PRG	DUCTION					
DATE FIRST PRODUC	TION PRODU	CTION METHOD (F	lowing, gas lift, p		and type o	of pump)		STATUS (Produ	cing or
5-24-79	<u> </u>	Flowing						t-in) t-in	•
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	GA:	S-MCF.	WATER-BBL	GAS-OIL	RATIO
6-5-79	24	22/64		2		2440	0	1,220	,000
LOW. TUBING PRESS.	CASING PRESSUR	CALCULATED 24-HOUR RATI	OIL-BBL.	GAS		WATER-		OIL GRAVITY-AF	'I (CORR.)
R4 DISPOSITION OF	GAS (Sold, used for	fuel vented etc.)	2	24	40		0		
Sold	GAS (Solu, useu joi	juei, tentea, etc.)					TEST WITNES	SED BY	
SOIU 35. LIST OF ATTACH	MENTS						<u> </u>		
Logs mail	ed 4-6-79				-				
	that the foregoin	g and attached in	formation is comp	plete and corre	ct as dete	ermined from	all available r	cords	
eicyps	Kay (~	Ac	lministra	tive S	Superviso		6-16-79	
SIGNED		7	TITLE	· · · · · · · · · · · · · · · · · · ·			DATE		