# 1R - 164

# REPORTS

# DATE:

1-11-1980

#### GROUND WATER STUDY

# INEXCO UNLINED PIT APPLICATION

# CASE NO. 6782

January 11, 1980 Oil Conservation Division John W. Runyan

#### GROUND WATER STUDY 18-19-33 Area

A field trip was made January 10, 1980, to determine status of water wells and surface geology in the area around the Inexco Federal Lease located in Unit H of Section 7, T19S, R33E, for the purpose of determining if Inexco should be given an exception to the No-Pit Order.

The field study found four water wells were located within 1½ miles of the Enexco well location. Water well located in Unit D of Section 17, T19S, R33E, and the well in Unit O of Section 1, T19S, R32E have both been abandoned for some time. No mills on location. The water well located in Unit E of Section 18, T19S, R33E, is used for watering stock and has a chloride content of 156 ppm chlorides, and there is a windmill located in Unit C of Section 5, T19S, R33E, which is currently being used for stock water.

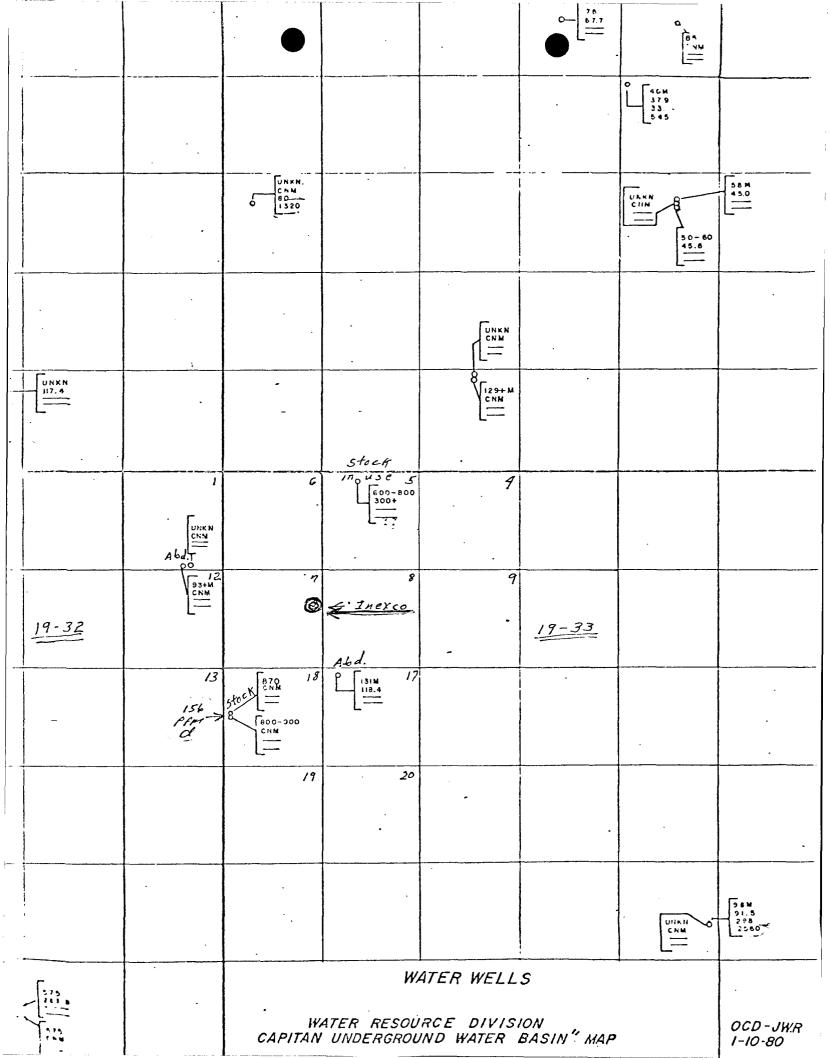
The area all around Inexco's well apparently does have underground water of useable quality, and is well under the 10,000 ppm recognized as useable by W.C.C. Chlorides range from 2560 to 156 ppm chlorides in the general area, and depth of water wells range from 117 feet to 300 feet. Refer to map.

<u>GEOLOGY</u>: There are low dunes covering triassic redbeds in the area in question and the triassic (on surface) is composed of sand lightly cemented with red clay and is very soft. Any water put into pits would easily go down into the water aquifer.

I do not recommend that Inexco be allowed exception to the No-pit Order.

w. Nunyan

John W. Runyan



Well Ownership:Unknown	Well No. #1
Land Status: State Federal	Fee
Well Location: Unit Letter $\underline{E}$ , Section $\underline{18}$ Water well has small pump jack - electric	_, T_19_S, R_33_E
	Depth <u>??</u> feet.
Sample Number:	Date Taken: <u>1-10-80</u> Taken By: <u>John W. Runyan</u>
Specific Conductance:m/ Total dissolved Solids:PF Chlorides:156.2 PF	
Ortho-phosphates: V.Low Low	☐ Medium ☐ High ☐ Medium ☐ High
Date Analyzed: 1-11-80 By: Dil Co	W. <u>Runy an</u> onservation Division
REMARKS: This water well is 300 feet west pit disposal sample static taken from stock ta	
25 ml sample = 142.0 factor x 1.1 titration = 156	. 2

Well 0	wnership: <u>Collier &amp; C</u>	Well No.	Battery pit		
Land S	tatus: State	Feder	al <u>x</u>	Fee	
Well L	ocation: Unit Letter _	<u> </u>	ction <u>1</u>	<u>8</u> , T <u>19·</u> S, F	₹ <u>33</u> Е
Federal	18 Lease West Tonto	- Yates	-		
Type×₩	۲۰۰۰ Battery pits			Depth _	feet.
×¥ĕ‡l U	se:water disposal				
Sample	Number:#1	_		Date Taken:	1-10-80
				Taken By:	
	Specific Conductance:	<b></b>	I	n/~	
	Total dissolved Solid	s:12,4	25	PPM.	
	Chlorides:	<u></u>		PPM.	
90° - 4 10 - 5	Sulfates:			PPM.	
e ~	Ortho-phosphates:	]V.Low	Low	🗌 Medium	🗌 High
	Sulfides:	None	Low	Medium	🗌 High
					•
Date A	nalyzed: <u>1-11-80</u>		By:	m. W. Min Conservation P	<i>uttr</i> ivision
REMARK	S:Sample taken from	pit s	tatic		
	arge pits interconnected			its (no oil or	n water H <sub>2</sub> S odor
	· · · · · · · · · · · · · · · · · · ·				<u> </u>
l ml sa	ample = 3550 factor x 3.	5 titrat	ion = 12,	425 ppm	
<b></b>		<u></u>		- <u></u>	
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#### WEST TONTO YATES

#### NO PIT ORDER EXCEPTION

The Collier and Collier Federal 18 Lease in 18-19-33 (formerly JHC Prod. and Originally Hudson & Hudson) West Tonto-Yates Pool is being produced into pits at battery in Unit E of 18-19-33, from two wells #2 in Unit F and #4 in Unit H both in 18-19-33. Both of these wells are outside the exempt from No-pit order R-3554. The original wells in exempt area of Collier and Collier which went into battery in Unit E are P&A. Amoco has some wells in E/2 of Section 13-19-32 which are exempt.

There is a water well located in the W/2 of Unit E which supplies stock water and is 156 ppm chlorides (Jan. 10, 1980) There are three large pits at the Collier battery (Unit E) which are interconnected and have much water in them. Chlorides 12,425 ppm.

AREA EXEMPT UNDER R-3552 -- WEST TONTO-YATES POOL

19-32

19-33

Amoco 13 10250	ф. 6 wn 03# ф. 8 02 -6-3	18 -\$-8 @4
	-\$-7 -\$-5	

ahin w. Kunyan

John W. Runyan Hobbs - OCD January 11, 1980

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#### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

The matter of the hearing CALLED BY THE OIL CONSERVATION OF THE PROPERTY OF THE OF THE DESIGN OF THE MEXICO FOR MORE THE FORE THE FORE THE THE PURPOSE OF CONSIDERING OF THE THE OF THE OF THE PURPOSE OF CONSIDERING OF THE THE OF THE O

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APPLICATION OF WILLIAM A. AND EDWARD R. HUDSON FOR AN EXCEPTION TO ORDER NO., R-3221, AS AMENDED LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION "IL I'T I ...

BY THE COMMISSION:

. . . . . . . . .

This cause came on for hearing at 9 a.m. on October 16, 1968, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this <u>18th</u> day of November, 1968, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

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

(2) That the applicants, William A. and Edward R. Hudson, are the operators of certain oil wells producing from the West Tonto Yates-Seven Rivers Pool, Lea County, New Mexico,

(3) That the West Tonto Yates-Seven Rivers Pool as presently designated comprises the following-described acreage:

	· · ·	• •							
•	 - TOWNSHIP	19.	SOUTH,	- RANGE	32	EAST,	NMPM		
	Section	13:	E/2				. •	•	

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM Section 18: N/2 and SW/4 -2-CASE No. 3892 Order No. R-3554

(4) That effective January 1, 1969, Order (3) of Commission Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which will constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(5) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(6) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(7) That the applicants seek an exception to the provisions of the aforesaid Order (3) to permit the continued disposal of salt water, produced by all of the wells in the West Tonto Yates-Seven Rivers Pool in unlined surface pits located within the horizontal limits of said pool.

(8) That there is an abandoned shallow water well, the water from which has been reported as impotable, approximately  $4 \frac{1}{2}$  miles from the subject pits.

(9) That the evidence presented indicates that the nearest existing shallow water well is more than five miles from the subject pits.

(10) That there appears to be no water in the vicinity of the subject unlined surface pits for which a present or reasonably foreseeable beneficial use is or will be made that would be impaired by contamination.

(11) That approval of the subject application will not cause waste nor violate correlative rights.

-3-CASE No. 3892 Order No. R-3554

#### IT IS THEREFORE ORDERED:

(1) That the operators of oil and/or gas wells, both existing and prospective, producing from the West Tonto Yates-Seven Rivers Pool and located in the E/2 of Section 13, Township 19 South, Range 32 East, and the N/2 and SW/4 of Section 18, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico, are hereby granted an exception to Order (3) of Commission Order No. R-3221, as amended, to continue to dispose of water produced in conjunction with the production of oil or gas, or both, by said wells in unlined surface pits located within the boundaries of the West Tonto Yates-Seven Rivers Pool as presently designated.

 (2) That the Commission may by administrative order rescind such authority whenever it reasonably appears to the Commission
that such rescission would serve to protect fresh water supplies from contamination.

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

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

STATE OF NEW MEXICO OII, CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

SEAL

Well Ownership:Unknown	Well No
Land Status: State FederalX	Fee
Well Location: Unit Letter $\underline{E}$ , Section $\underline{1}$	8, T9S, R33E
Water well has small pump jack - electric	
Type Well: water well	Depth <u>??</u> feet.
Well Use:stock	
Sample Number:	Date Taken: <u>1-10-80</u>
	Taken By: John W. Runyan
Specific Conductance:	_ m/
Total dissolved Solids:	_ PPM.
Chlorides: 156.2	PPM.
Sulfates:	PPM.
Ortho-phosphates: []V.Low []Low	w 🗌 Medium 🗌 High
Sulfides: None Low	w 🗌 Medium 🗌 High
Date Analyzed: 1-11-80 By:	The W. Runy on Conservation Division
REMARKS: This water well is 300 feet w	vest of battery which has open
pit disposal sample static taken from stock	c tank
25 ml sample = 142.0 factor x 1.1 titration =	156.2

Well Ownership: Collier & Collier	Well No. <u>Battery pit</u>
Land Status: State Federal	Fee
Well Location: Unit Letter <u>E</u> , Section	<u>18</u> , T <u>19</u> S, R <u>33</u> E
Federal 18 Lease West Tonto - Yates	
Type×H&\$\$: Battery pits	Depthfeet.
저문타 Use:water disposal	
Sample Number: #1	Date Taken: <u>1-10-80</u>
	Taken By:
Specific Conductance:	_ m/
Total dissolved Solids:12,425	PPM.
Chlorides:	PPM.
Sulfates:	PPM.
Ortho-phosphates: 🗍 V.Low 🗍 Low	🗌 Medium 📄 High
Sulfides: None Low	Medium High
:	
Date Analyzed: 1-11-80 By:	un W. Munellin Conservation Division
REMARKS:	
Three large pits interconnected 34' water in	pits (no oil on water H <sub>2</sub> S odor)
1 ml sample = 3550 factor x 3.5 titration = 12	,425 ppm

STATE OF NEW MEXI ENERGY AND MINERALS DEPENTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 6782 Order No. R-7345

APPLICATION OF INEXCO OIL COMPANY FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on January 3, 1980, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>6th</u> day of September, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

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

(2) That the applicant, Inexco Oil Company, is the owner and operator of certain wells located in Section 7, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico.

(3) That Order (3) of Division Order No. R-3221, as amended, prohibits in that area encompassed by Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico, the disposal, subject to minor exceptions, of water produced in conjunction with the production of oil or gas, or both, on the surface of the ground, or in any pit, pond, lake, depression, draw, streambed, or arroyo, or in any watercourse, or in any other place or in any manner which would constitute a hazard to any fresh water supplies and said disposal has not previously been prohibited.

(4) That the aforesaid Order No. R-3221 was issued in order to afford reasonable protection against contamination of fresh water supplies designated by the State Engineer through

-2-Case No. 6782 Order No. R-7345

disposal of water produced in conjunction with the production of oil or gas, or both, in unlined surface pits.

(5) That the State Engineer has designated, pursuant to Section 65-3-11 (15), N.M.S.A., 1953 Compilation, all underground water in the State of New Mexico containing 10,000 parts per million or less of dissolved solids as fresh water supplies to be afforded reasonable protection against contamination; except that said designation does not include any water for which there is no present or reasonably foreseeable beneficial use that would be impaired by contamination.

(6) That the applicant seeks as an exception to the provisions of the aforesaid Order (3) to permit the disposal of salt water produced by applicant's above-described wells into an unlined surface pit located in Unit H of said Section 7.

(7) That it now appears that the wells for which the exception was sought have been plugged and abandoned and this case should therefore be dismissed.

IT IS THEREFORE ORDERED:

(1) That Case No. 6782 is hereby dismissed.

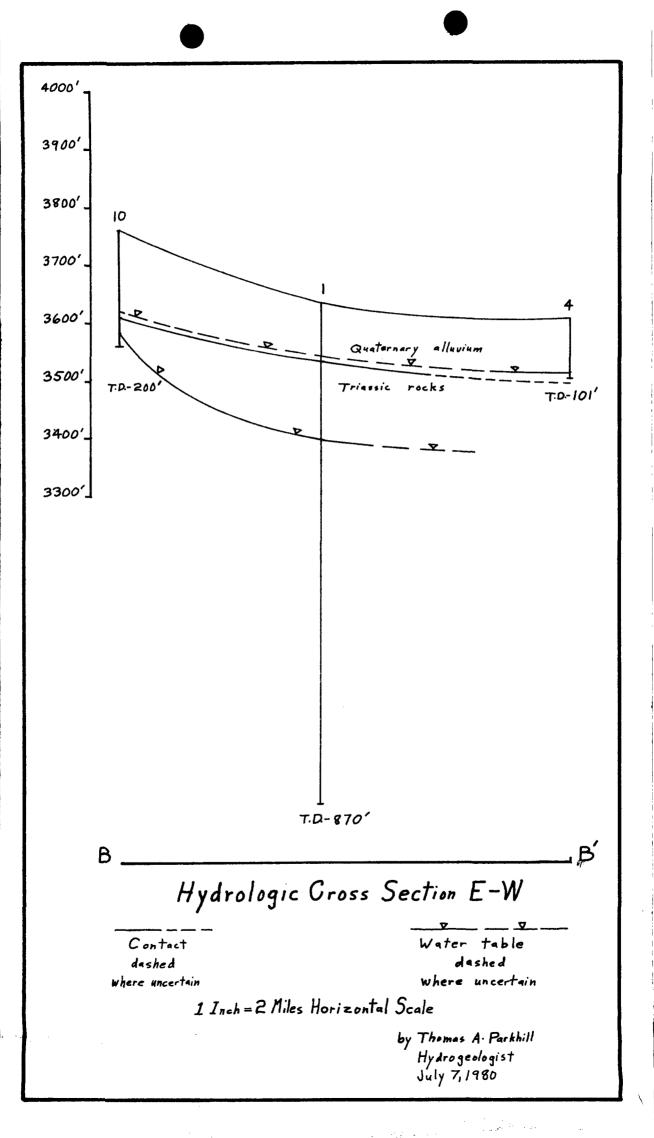
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

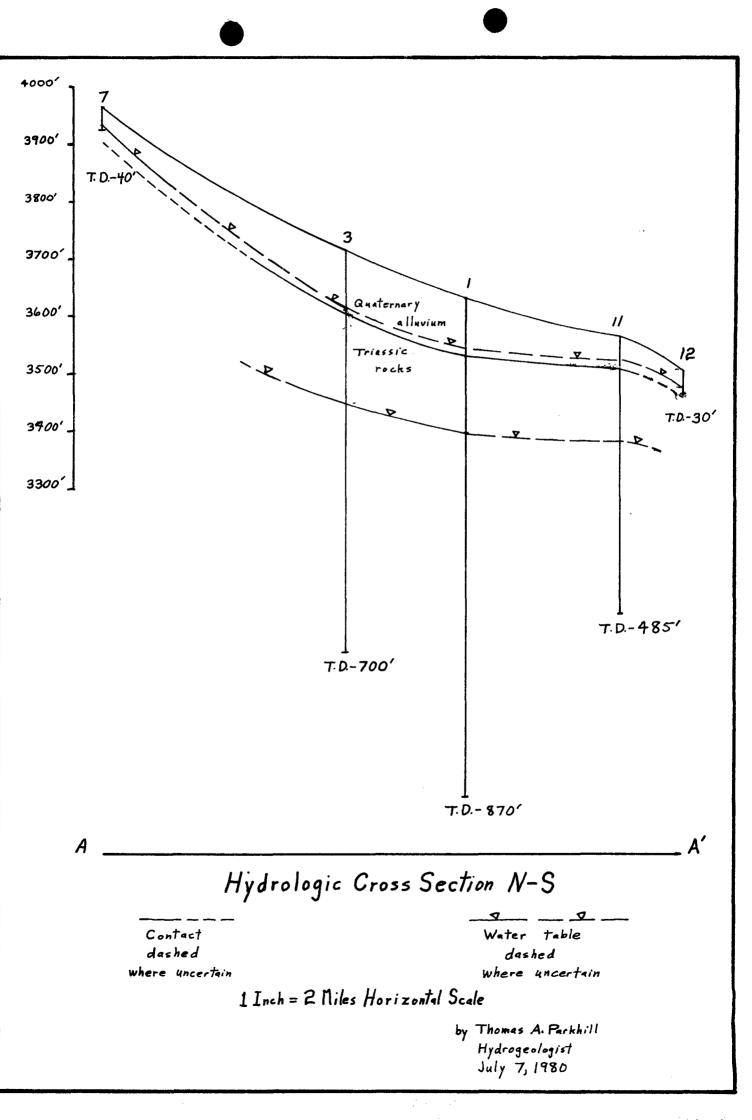
άδε ο.` RAMEY , Director

SEAL

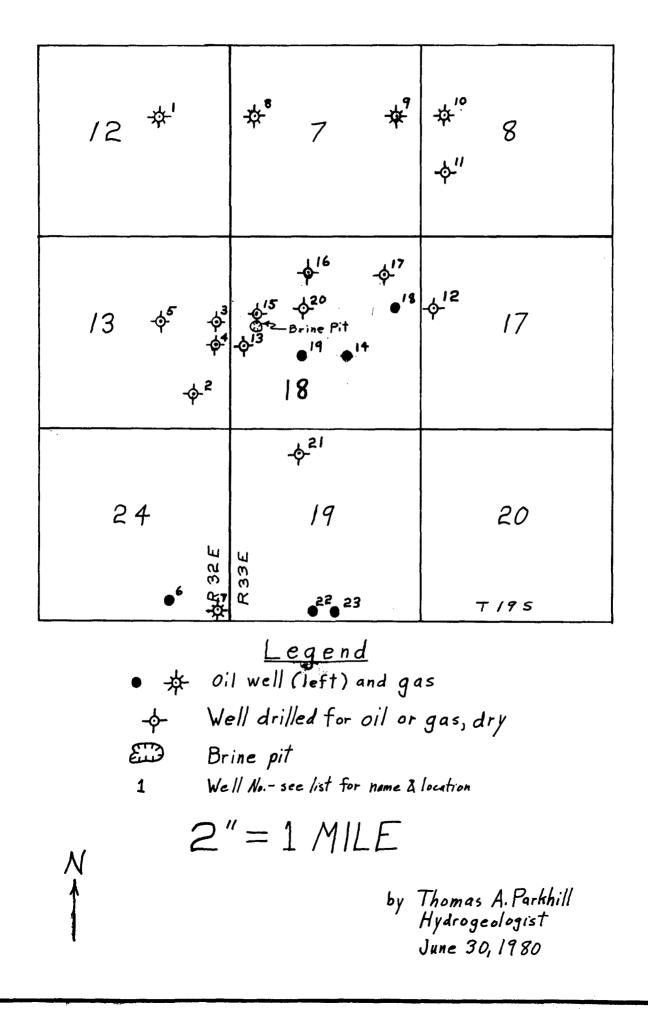


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OIL & GAS WELL STATUS MAP



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Contamination of Fresh Ground-Water Supplies in Southeastern New Mexico by J. I. Wright Engineer New Mexico State Engineer Office Kosuell, N. Mex. April: 1979 Mike Holland may have copy of this. if not have J.R. gell copy from Reynolds. Refers to reference listed above Bob Borton has thin information Work back from cont well drill up dip-do Cli out in field to plan where next well will be drilled, bring rest of Sample back to Tab for further Anal. Chromates A used in 1 the plants (refining) Gas Monitor Might be a practical piece Wight test for Nitrates for 6255 pool breakage

Radium 226 decays to radom 222 Malf-life-less than 4 days is soluble in water to some extent Some spring and underground water have rather large amounts present Oil Conservation Division P. O. Box 20 88 Santa Fe, N.Mex 87501 600 ./

Water samplier holds about 1 pint of water Color cut - when hear it hit water and then subtract difference. Take heading of depth. (oncert Sour dist. time when pit notusing time from whe g pit was first used

Battery unit is listed on well logs-before 1867 they were large pits Most of wells," might be drilled after 1967 Salt water well might be one at fault for pollution

Note: Start Making estimate on number of wells that need to be drilled on 3 projects. Need to be done by next week for bid s

Might want observation well near old pit(might not be too helpful) injection well. No information on clearing up of water. 3, or 6 month pasis depending on problem

Vette Penn - 54,000 ppm Cl. See records of chem Anal. of princted 5)

tart; after pumping reverses to hi eilte weter high water to Vada - Not under flood production-have to put in disposition-have to put in Lane - not under flood Flying M- under flood - in U.I.C. hear cont. well This information is for the Tapp water problem.

Notes-Hobb 2-25-80 (Mon "). Runyan Cl. cont above 100 ppm - Ogallala (Ft perday over 200 ppm - Kocl (Tucumcari shale) 3 Zor 32 - can't blow water out of hole and they can be drilled quickly. John Kunyan does not recommend going in and cleaning out old windmills. It is less time and trouble to drill a new well near windmill. 1967-last time pits used as evop. pits and was legal-not much can be done legally before this date Spot pits for source of contamination. should find record of how much water drained into pits and if figure correct. Lots of research needed here.

three areas of future drig! (Apa36715 R33E Need surface of beds Topo map. Nuter seturation and Top Tri. reports (B.) Phillips - LUSK Supply Well Vacuum Pool Buckeye NMEX. Sec 19 T175 R35 BE dot is well state sneed red bed Tri map mis have water level map red dot is well (C.) S. W. Public service Sec 34,35 T185 R35E S.W. Public Service 26well, 3 ore conten. J.R. suggests that this area not be dvilled because it is not highly polluted and it appears water quality is becoming better with time. It should be observed for Gor & Months with Water samples. Cl. content very 100 at this time. O.C. Ddoes not know how much water pat into pit from oil pool just north of polluted wells.

#### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 4336 Order No. R-3965

APPLICATION OF BYRON MCKNIGHT FOR AN EXCEPTION TO ORDER NO. R-3221, AS AMENDED, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 13, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>20th</u> day of May, 1970, the Commission, a quorum being present, having considered the record and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

That the applicant's request for dismissal should be granted.

#### IT IS THEREFORE ORDERED:

That Case No. 4336 is hereby dismissed.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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A. L. PORTER, Jr., Member & Secretary

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