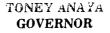
BW - <u>23</u>

PERMITS, RENEWALS, & MODS CLOSEP





DENISE D. FORT DIRECTOR

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION P.O. Box 968, Santa Fe, New Mexico 87504-0968 (505) 984-0020

January 27, 1986

Joe T. Janica Natural Resources Engineering, Inc. PO Box 2188 Hobbs, NM 88240

Re: Steve Carter & Son Maljamar Brine Station - DP-407

Dear Mr. Janica:

Thank you for your letter of January 22nd. My comments below follow the numbered paragraphs of your letter.

1. The new proposed location of the Carter & Son brine well is an improvement over their former proposed location. It will still be necessary to monitor closely the volumes of brine produced at the Carter & Son facility, so as to maintain a running estimate of cavity development in the salt section. However, the greater distance from any existing perforations at the new proposed location will buy some years of operation for the facility before cavity size will become an object of much concern.

2. Please commit to notifying the EID District Engineer in Roswell, Bill Weber at 626-6046, when your client is ready to start drilling, so that Mr. Weber may be present to witness the presence or absence of any water sand in the first 200 feet of the well.

Your plans for installing additional casing in the well should a shallow water sand be encountered, are adequate.

3. Noted.

4. Please note that an approvable location for a monitoring well would be southeast of the facility (downgradient in the Ogallala Formation), in a position where it would pick up leakage from surface activities, and no more than 100 feet away from this type of activity at the brine station.

5. Noted. Thank you for your attention to providing this additional information.

6. Noted.



7. 1000-bound pressure tests usually require at least several days of lead time to line up the necessary equipment. Eff inspectors also usually require several days of lead time in order to arrange their schedule around witnessing a pressure test. Please commit to giving EID at least a week's notice prior to running a pressure test.

8. Noted.

9. On this topic, I accept the commitment made on page 17 of the Carter & Son discharge plan application: "Steve Carter & Son will report any significant spills and/or loss of mechanical integrity of the well to the EID as required in Section 1-203.A.1 and 5-208.B.1 of the WQCC regulations." The example I gave in my November 14, 1985 letter to you was to give you an idea of what would be considered a significant spill by the EID.

I await the "demonstration of financial responsibility" which will wrap up the requirements of the Carter & Son discharge plan, together with your concurrence with the points listed above.

Sincerely,

Paige Grant Morgan Water Resource Specialist Ground Water Section

PGM:pgm

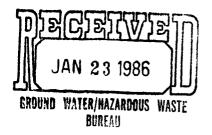
cc: Garrison McCaslin, Acting Manager, EID District IV



January 22, 1986

Environmental Improvement Division P. O. Box 968 Santa Fe, New Mexico 87504-0968

Attention: Paige Grant Morgan



RE: Discharge Plan DP-407

Dear Paige:

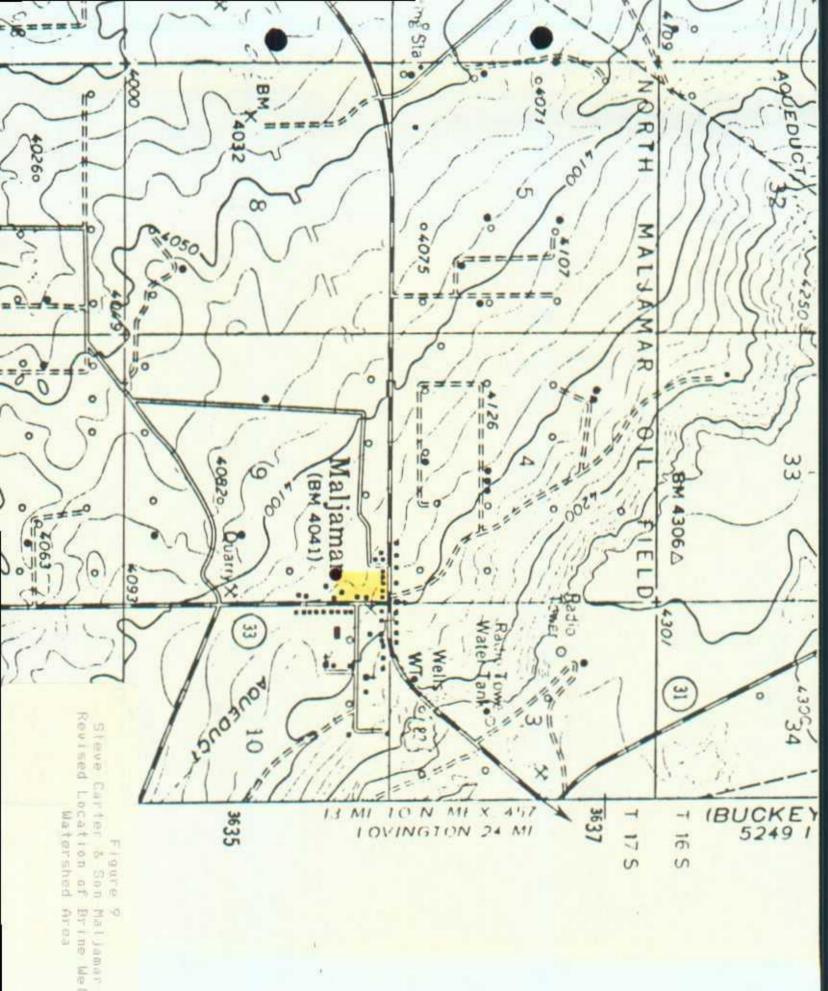
Regarding your letter of November 14, 1985, we have discussed your comments and would like to amend our plan as follows:

- 1. The proposed brine well will be moved to a location on our site to maximize the distance from the Maljamar (Grayburg) Unit #33. This location will be 1105' FNL and 630' FEL.
- 2. If a water sand is discovered during the drilling of the proposed well, this sand will be cased off and cemented back to surface. This will require the following modifications to our plan:
 - A. Increase surface hole to 12-1/4".
 - B. If water is encountered, 9-5/8" surface casing will be set.
 - C. Hole size will be reduced to 8-3/4" and 7" casing will be set in the anhydrite casing. ⊃
 - D. All strings will be cemented back to surface.
 - E. See Figure 1, Rev. 1.
- 3. Steve Carter and Son will provide documentation of casing pressure tests (i.e. record chart) to the EID and will conduct a temperature survey after the casing is cemented. Our client has been advised of the notification requirements for each phase of the construction operations.
- 4. If a water bearing formation is encountered and a suitable monitor well is not found, Steve Carter will install a monitor well as per Section 4 of your letter. The water from this well will be sampled for major ions and total dissolved solids (TDS) initially with quarterly tests for chlorides and TDS. — *Coeafton*?
- 5. The soil in the Maljamar area is classified as Group A Kermit Series. Soils are classified into four hydrologic soil groups (i.e. A B C D) according to their infiltration and transmission rates.

NGINEER	RESOURCES VG INC.	Figure 1, Rev 1
	/ 201 E. Sanger 5) 397-6319	WELL BORE SKETCH
	Mexico 88240	
		ve Carter and Son/Maljamar Brine/#1
	B NUMBER	
		/NA
PLUG E	ACK DEPTH 2000*	KB ELEVATION _4125' es
1 11	1 11	
		Size <u>12-1/4</u>
		SURFACE CASING: Size 9-5/8 Weight 32# Grade H-40
1 11		Set at with Sacks Cemen
		Circulate Sacks to Surfac Remarks: <u>Cement will be calculated at casing</u> point wit
		150% excess if no water bearing formations are
	Surface casir	encountered. Drill 12-1/2" to 1000' (anhydrite) and
	set across fi	resh
	water sand wi	
	there are no	
	encountered.	
	Hole S	Size <u>8-3/4 or 12-1/4</u>
		PRODUCTION CASING: Size 7" or 8-5/8"_ Weight 26# or 32#GradeJ-55
	[]	Set at <u>1000'</u> with <u>Sacks Cemen</u>
		Cement Top: Calculated Temperature Survey Remarks: <u>If surface casing is run, set 7" casing.</u>
		If surface casing is not run, set 8-5/8", 32#, H-40.
		Cement will be calculated to circulate to surface
		with 50% escess.
	Production casin set in top of	ng
	Rustler Anhydria	te
	1000'.	
	4	TUBING: Size 2-7/8 Weight 6.5# Grade J-55
	5	Size <u>2-7/8</u> Weight <u>6.5#</u> Grade <u>J-55</u> Number of Joints <u>61</u> Set at <u>1900'</u>
	31	Packer Set at <u>NA</u>
	()	Bottom Arrangement: <u>Tubing will be run in hole</u> open-ended.
	1	
	11	
		······································
	Open hole through	
	salt section 1100-2000'.	Size <u>NA</u> Number <u>NA</u>
		Gas Anchor Set at
		Arrangement:
	11	
	11	
	II 1	

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87176

Brine Well and



TONEY ANAYA GOVERNOR

DENISE D. FORT DIRECTOR

STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT DIVISION P.O. Box 968, Santa Fe, New Mexico 87504-0968 (505) 984-0020

November 14, 1985

J.T. Janica Natural Resources Engineering, Inc. PO Box 2188 Hobbs, New Mexico 88240

Dear Mr. Janica:

Thank you for your submittal of a discharge plan DP-407 for Steve Carter and Son's Maljamar Brine Station. The submittal was complete with the exception of a demonstration of financial responsibility, which you explained was forthcoming. A public notice of receipt of this discharge plan was published on or before November 7th. As you know, the EID must wait for 30 days after publication of public notice before taking any action on a discharge plan. In the interim, I have the following comments for your consideration.

1) The proposed location of the brine well is only 216 feet from an existing perforation, specifically the Maljamar (Grayburg) Unit #33 well. This is a source of concern, since the salt cavity could grow over the years of operation of the Carter & Son brine station until it intercepts the adjacent perforation. This could cause problems to the #33 well if it is still operating, and if it is abandoned, the #33 well could serve as a conduit to allow brine to move into overlying formations. To avoid such a scenario, I strongly recommend that the proposed well location be at the greatest possible distance from any existing well, operating or abandoned. If your client chooses to stay at the present proposed location, he will be required to run a sonar log as a condition of renewal in order to produce a direct measurement of the encroachment of the brine cavity on the nearest perforation.

2) The present plans show only one string of casing. If the water sand which occurs in the water wells shown in Attachment A is encountered in drilling the Carter & Son brine well, please commit to casing off this formation and cementing that first string of casing back to ground surface, before continuing with a second string of casing to the top of the salt.

3) Please provide documentation of a pressure test on the casing and a temperature or cement bond log as a demonstration of a sound cement job, as part of your construction program. Also, please advise your client of his obligation to notify this office prior to each phase of your construction, logging and testing program (see Section 5-205.A.5 of the New Mexico Water Quality Control Commission (WQCC) regulations).

4) If you encounter a water-bearing formation in drilling the brine well, unless a field inspection turns up a water well in a location suited to being used for monitoring, please commit to installing a monitor well near to and downgradient of the brine station, and perforated through the entire water-bearing zone. This well may be cased with PVC of no less than 3 inches inside diameter (in order to allow access by a two-inch bailer), and may be grouted with bentonite with a concrete cap at the surface. In short, it is acceptable to minimize cost in installing this well, so long as it is sealed to surface runoff between the borehole and casing, and as long as it taps the entire saturated zone.

This well should be sampled initially for major ions and total dissolved solids, and subsequently should be monitored quarterly for chloride and TDS. It should be plugged completely back to surface at the same time that the brine well is properly plugged and abandoned. This does not, of course, apply if you locate an active domestic well that you use for purposes of monitoring.

5) Please provide additional information on flooding potential at the site. The map you provided was too small-scale to show the distance to the nearest local drainage divide (the map was lacking a scale, incidentally); and information on probable absorptive capacity of the soil was strictly qualitative. One method of making a more accurate estimate on probable runoff in resonse to a given storm is given in Chapter 21 of the <u>Handbook of Applied Hydrology</u>, Ven Te Chow, editor-in-chief, McGraw-Hill, Inc., 1964. You may also be able to obtain some information on this subject from the Soil Conservation Service.

6) What are the proposed dimensions of the sump in the loading pad?

7) Please give EID more than one day's notice of conducting any pressure test procedure.

8) The proposed high-low cutoff switches are an excellent feature. Please be sure that they are tested periodically.

10) Re: your definition of a "major spill": please refer to the language of WQCC regulation Section 1-203.A. Brine ponded within your bermed area for long enough to infiltrate to ground water would also be considered a major spill.

Thank you for preparing so complete a discharge plan application for initial review. Please be in touch if you have any questions regarding the points raised in this letter.

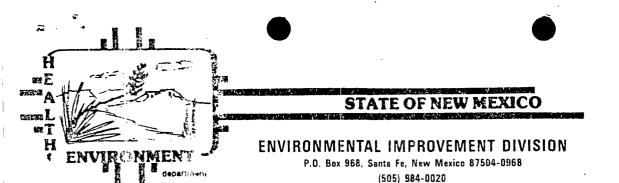
Sincerely,

Parce Morgan Paige Grant Morgan

Water Resource Specialist

PGM:pgm

cc: John Guinn, EID District IV Manager.



TONEY ANAVA GOVERNOR

DENISE D. FORT DIRECTOR

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 1, 1985

Steve Carter and Son P.O. Box 803 Hobbs, New Maxico 88240

Dear Mr. Canter:

Enclosed is a copy of the public notice pertaining to your proposed discharge which was issued by this division pursuant to New Mexico Water Quality Control Commission Regulations, Section 3-108.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

F

Sincerely,

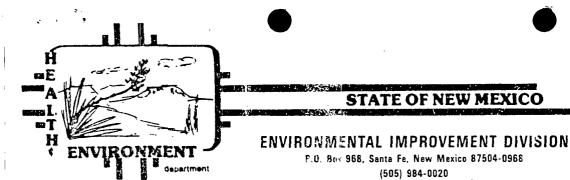
Mingan

Ron C. Conrad Program Manager Ground Water Section

RCC/mp

Enclosure

 PS Form 3800,	Feb.	1982				* L	J.S.G.	P.O. 19	983-40	3-517				
Postmárk or Date	TOTAL Postage and Fees \$	Return receipt showing to whom, Date, and Address of Delivery	Return Receipt Showing to whom and Date Delivered	Restricted Delivery ⁴ Fee	Special Delivery Fee	Centified Fee	Postage Starto	P.Q. State and ZIP'Code	Street and No Bey 803	Serling center + Son	(See Reverse)	NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL	RECEIPT FOR CERTIFIED MAIL	P 612 426 593



CERTIFIED MAIL - RETURN RECEIPI REQUESTED

November 1, 1985

The Honorable Bill Waldrap, Mayor City of Hobbs P.O. Box 1117 Hobbs, New Mexico 88240

Dear Mr. Waldrap:

Enclosed is a public notice which includes notice of a proposed discharge plan(s) for one or more operations in or near your city.

If you have any questions, please do not hesitate to contact me at the above address and telephone number (ext. 279).

Sincerely,

ize Mongon for

Ron C. Conrad Program Manager Ground Water Section

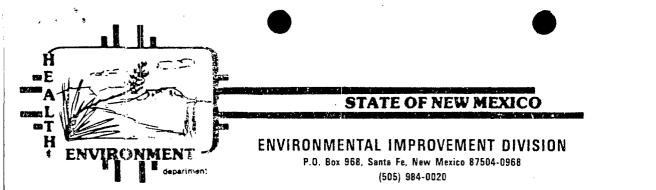
RCC/mp

Enclosure

PS Form 3800,	Feb.	1982				*	U.S.G.I	P.O. 1	983-40	3-517				
Postmark or Date	TOTAL Postage and Fees \$	Return receipt showing to whom, Date, and Address of Delivery	Return Receipt Showing to whom and Date Delivered	Restricted Delivery Fee	Special Delivery Fee	Certified Fee	Postage	ROI State and ZIP Corde	Street and No. Box 1117	star body	City See Beverse	NO INSURANCE COVERAGE PROVIDED	RECEIPT FOR CERTIFIED MAIL	19 924 219 d
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TONEY ANAYA GOVERNOR

DENISE D. FORT DIRECTOR



CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 1, 1985

Boarc of County Commissioners County of Lea Lea County Courthouse Hobbs, New Mexico 88240

Board of Country Commissioners:

Enclosed is a public notice which includes notice of proposed discharge plan(s) for one or more operations located in your county.

If you have any questions, please do not hesitate to contact me at the address and telephone number given above.

Sincerely,

ange Mongan for

Ron C. Conrad Program Manager Ground Water Section

RCC/mp

Enclosure

PS Form 3800,	Feb.	1982			_	* U	l.S.G.F	P.O. 1	983-40	3-517			
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TONEY ANAYA GCVERNOR

DENISE D. FORT

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November 1, 1985

Hobbs News Sun 201 North Thorp Hobbs, New Mexico 88240

Dear Sir or Madam:

Please publish the enclosed public notice concerning discharge plan(s) -in--the classified legal section on or before November 7, 1985.

Send your statement and two (2) copies of the Affidavit of Publication to me at the above address.

Please print only the section(s) highlighted in yellow.

Thank you.

Sincerely,

longan for

Ron C. Conrad Program Manager Ground Water Section

RCC/mp

Enclosure

NOVEMBER 1, 1985

TO BE PUBLISHED ON OR BEFORE NOVEMBER 7, 1985

PUBLIC NOTICE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Notice is hereby given that, pursuant to New Mexico Water Quality Control Commission Regulations, the following proposed discharge plans have been submitted for approval to the Director of the New Mexico Environmental Improvement Division, P.O. Box 968, Santa Fe, New Mexico 87504-0968; telephone (505) 827-2906.

(DP-10) ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY, 900 Polk Street, Amarillo, Texas 79171 proposes to renew their current discharge plan to dispose of up to 20,000 gallons per day of oil-water separator water from the refueling facilities at their Clovis railroad yard. The wastewater is to be discharged into an unlined playa lake (Santa Fe Lake) in Section 19, T2N, R36E, south of the town of Clovis in Curry County, New Mexico. Hydraulic conductivity tests performed on lake bottom materials indicate that seepage from the lake is minimal. Ground-water monitoring indicates no water-quality impacts from Santa Fe Lake. The depth to ground water is approximately 270 feet with a total dissolved solids content of 450 mg/1.

(DP-278) ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY, 900 Polk Street, Amarillo, Texas 79171 proposes to modify their current discharge plan for their Belen railroad yard to include the installation and operation of three oil-recovery wells and ground-water depression pumps. The ground-water depression pumps will discharge up to 220,000 gallons per day. Effluent from two of the depression pumps will be directed to the existing holding basin and then discharged under a revised NPDES permit to the Middle Rio Grande Conservancy drainage ditch in Section 18 (projected) T5N, R2E of Valencia County. Water from the oil/water separators derived from roundhouse operations and refueling facilities, previously proposed to be discharged to lined evaporation ponds, will be combined with the discharge to the NPDES outfall. Discharges of water from the Hadley auto storage facility oil/water separator will also be directed to the conservancy ditch. The discharge from the third depression pump will be discharged directly into the conservancy ditch under a new NPDES permit and will incorporate periodic discharges from the two oil/water separators serving the east-end fueling facilities. Ground-water monitoring has been revised to include only parameters which may occur in elevated levels in the discharge. The depth to ground water is approximately 12 feet with a total dissolved solids content of 560 mg/l.

(DP-409) NEW MEXICO STATE HIGHWAY DEPARTMENT AND ETI OF NORTH AMERICA, INC., P.O. Box 1149, Santa Fe, New Mexico 87501, propose to discharge treated waste water from the decontamination of PCB release in the General Office Building, 1120 Cerrillos Road in Santa Fe, to a lined solar evaporation pond. The evaporation pond is located at the Department of Corrections State Penitentiary adjacent to the penitentiary's sewage treatment plant, Section 35, T16N, R8E. Prior to discharge the waste water will be treated to remove suspended solids and PCB's. A maximum of 165,000 gallons of water will be discharged for total evaporation. The discharge will contain approximately 1 part per billion of PCB's, 935 parts per million (ppm) sulfate, and 1869 ppm total dissolved solids (TDS). Ground water at the site occurs at a depth of approximately 90 feet and contains 200 ppm TDS. (DP-407) STEVE CARTER AND SON, P.O. Box 803, Hobbs, New Mexico 88240, has submitted a discharge plan for a proposed brine station to be located in the town of Maljamar in the NE 1/4 of Section 9, T17S, R32E in Lea County, New Mexico. Brine will be manufactured by means of an injection well drilled to a total depth of 2135 feet. Fresh water (total dissolved solids content approximately 650 milligrams per liter) will be injected through the casing-tubing annulus into the dry salt beds of the Salado Formation, and the resulting dense brine will be brought to the surface and stored in two 1000-barrel tanks for sale to tank trucks on demand. Injection volume is anticipated to average 1650 barrels per day. Ground water most likely to be affected by this operation is at a depth of approximately 120 feet and has a TDS content of about 420 mg/1.

(DP-408) TRUOG DAIRY, Tommie Truog, owner, Rt. 1 Box 89, Hagerman, New Mexico 88232 has submitted a proposed discharge plan for the disposal of milk barn wash water and manure containing runoff from a 600 cow dairy to be located five miles west of Hagerman, New Mexico in T14S, R25E, Sections 11 and 14 NMPM in Chaves County. The effluent, estimated at 25,000 gallons per day, will be land applied to 640 acres of adjacent cropland. Storm runoff from the corrals will be retained in a holding pond and then pumped out onto the cropland. The ground water most likely to be affected is at a depth of approximately 170 feet with a total dissolved solids content ranging from 1000 to 2000 mg/1.

Any interested person may obtain further information from the Ground Water Section, Ground Water/Hazardous Waste Bureau, EID, and may submit written comments to the Director of the EID at the address given above. Prior to ruling on any proposed discharge plan or its modification, the Director of EID will allow thirty (30) days after the date of publication of this Notice during which comments may be submitted to her and a public hearing may be requested by any interested person. Requests for public hearing shall set forth the reasons why the hearing should be held. A hearing will be held if the Director determines that there is significant public interest.



October 7, 1985

RECEIVED

Environmental Improvement Division P. O. Box 968 Santa Fe, New Mexico 87504-0968

Attention: Paige Grant Morgan

OCT 9 1985

GROUND WATER/HAZARDOUS WASTE BUREAU

RE: Discharge Plan Maljamar Brine SC01-001-001

Dear Paige:

Attached please find one copy of the discharge plan for Steve Carter and Son's proposed Maljamar Brine.

If you have any questions, please feel free to contact our office.

Sincerely yours,

pan E. Clark

Jan E. Clark Natural Resources Engineering, Inc.

Enclosures

cc: chrono file

R. Billingsley

Discharge Plan For Steve Carter & Son Maljamar Brine S9 T17S R32E Lea County, NM

10/1/85

Table of Contents

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	Page
General Description	. 4
Description of Facility	. 4
Site Characteristics	. 7
Procedures to Protect Ground Water Quality	14
Flooding Potential	17
Sign-Off Requirement	19
References and Sources of Information	20
Attachments & Drawings	21

LIST OF FIGURES

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Page

Figure 1	Proposed Wellbore Sketch 5
Figure 2	Physiographical Subdivisions of Southern Lea County
Figure 3	Geological Structure Map
Figure 4	Fracture Calculations
Figure 5	Location of Fresh Water Wells 12
Figure 6	Ground Water Map 13
Figure 7	Ownership Plat 15
Figure 8	Flooding Potential

LIST OF ATTACHMENTS

Attachment	A	State Engineer Records
Attachment	В	Water Analysis
Attachment	С	Plugging Records
Attachment	D	Plugging Procedure
Attachment	E	Plugging Bond

LIST OF DRAWINGS

Drawing	DW-01	System	Schematic

Drawing DW-02 Facility Plot Plan

I. GENERAL DESCRIPTION

A. Operator:

Steve Carter & Son Ron Billingsley P. O. Box 803 Hobbs, New Mexico 88240

B. Location:

Located in Section 9, T-17-S, R-32-E 835' FNL and 630' FEL Lea County, New Mexico

C. General Operation:

At the brine well fresh water is injected down tubing casing annulus into the Salado Salt section. The fresh water dissolves the salt and brine is returned up the production tubing and sent to the storage facility. Brine is removed from the storage facility by the loading pump and metered as it is loaded onto transports. (See Drawing DW-01, System Schematic)

II. DESCRIPTION OF FACILITY

A. Surface Facilities:

The brine well is located in the West part of Maljamar. Drawing #DW-02 is a plot plan of the facility showing the general layout of the site.

The facility will be enclosed by a fence which will prevent small animals and unauthorized personnel from entering the site. The surface facilities are arranged as shown in Drawing #DW-02. Brine is carried 60' through 4" pipe to the storage facility. From the storage facility, brine is carried 60' to the loading station. Typically 1650 bbls./day are discharged to and withdrawn from the brine storage facility.

The type of pipe to be used to transport brine from the well to storage to the loading station will be plastic pipe. It will be laid on top of the ground to facilitate visual inspection for leaks.

foris

Phone (505) 397 obbs. New Mexic	0 88240	WELL BORE SKETCH	
	UMBER SC01-001-001	Carter & Son / Maljamar Brine / #1 DATE DATE	
FIELD/POC	DL	/NA	
PLUG BACI	K DEPTH	KB0 ELEVATION 4125 Est.	
	Hole Size	11"	
		SURFACE CASING: SizeS78"Weight32#Grade(H40)	
		Set at	
		Benetter 300 sacks of cement is 150% of that	- die
			0,7 :
= F	Surface casing set in top of		
	Rustler Anhydr:		
[Hole Size	<u></u>	
11 H	·····	TUBING: Size <u>2-7/8''</u> Weight_ <u>6.5</u> #Grade_ <u>J55</u>	
		Number of Joints <u>61</u> Set at <u>1900'</u>	
		Bottom Arrangement: <u>Tubing will be run in hole</u> open ended	
- [] -]]		,	
	Open hole through	30-025-35716	
	salt section 1100'-2000'		

B. Underground Facilities:

It is proposed to drill a new well located 835' FNL & 630' FEL of Section 9, T-17-S, R-32-E. This new well will be drilled to approximately 1000' where casing will be set in the Rustler Anhydrite and cemented back to surface. After pressure testing the casing to 1000 psi, hole size will be reduced and the well will be drilled out with a 7" bit through the salt section to approximately 2135' (see figure 1).

No stimulation program is planned. Tubing will be run in the hole and injection operations will begin.

Initial injection pressure is anticipated to be 300 psi with a maximum injection pressure of 400 psi. Injection volumes are estimated to be 1650 bbls/day with a maximum of 2500 bbls/day.

Fresh water is to be injected down the casing tubing annulus with brine produced up the tubing. This will prevent exposing the casing to more corrosive brine water and in the event of a leak in the casing, fresh water would be the fluid leaked limiting contamination of ground water. Periodically this injection pattern will be reversed (ie. fresh water down tubing with brine produced up annulus) to remove any salt deposits which have accumulated in the tubing. After these deposits have been removed, the normal injection method will be resumed.

III. <u>SITE CHARACTERISTICS</u>

A. Geology:

Maljamar, New Mexico is located just off the caprock in an area known as Quercho Plains (see figure 2). This is a region covered by dune sand which is stable to semistable and extends over an area of approximately 300 square miles.

Figure 3 shows contours on parts of the buried redbed erosion surface which underlies rocks of the tertiary and quanternary age in Southern Lea County. An important feature of the redbed surface is the ridge that extends Southeastward from the Southwestern part of T16S, R32E into T19S, R35E. This ridge forms the Northeast boundary of a broad subsurface valley that drains toward T2OS, R32E and from which the Ogallala formation has been completely removed by erosion. Northeast of the ridge the Ogallala has been preserved intact. The buried ridge is a half mile to one mile Southwest of Mescalero Ridge. This indicates the amount of retreat of Mescalero Ridge since the Pleistocene erosion which removed the Ogallala from the Quercho Plains area.

Stratigraphic column to the base of the salt in the Maljamar (Grayburg) Unit #33 well which is 216' Southeast of the proposed brine extraction well is:

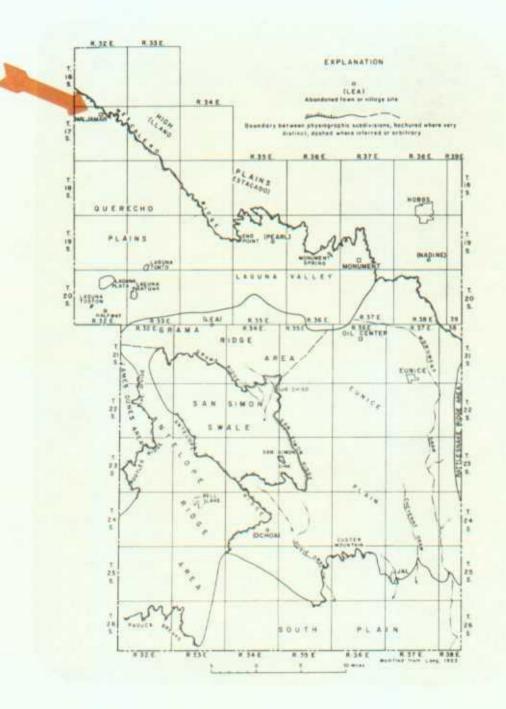
3,

Caliche and Alluvium	0		40'
Ogallala	40		150'
Redbeds	150	-	363'
Dockum Group	363		695'
Redbeds	695	-	980'
Rustler Anhydrite	980	-	1100'
Salado Salt	1100	-	2135'
Anhydrite & Dolomite	2135	-	3265'

The salt section is bounded on the top by an anhydrite section approximately 120' thick, 980' to 1100'. The bottom of the salt is bounded by anhydrite from 2135' to 3265' (1130' thick).

The down hole pressure caused by a 400 psi maximum operating pressure would be <u>1324 psi</u>. The fracture pressure of salt at 2135' is calculated to be <u>1936 psi</u>, this is well above the operating pressure and no fractures should be caused. (see figure 4)

Figure 2 Physiographic Subdivisions of Southern Lea County



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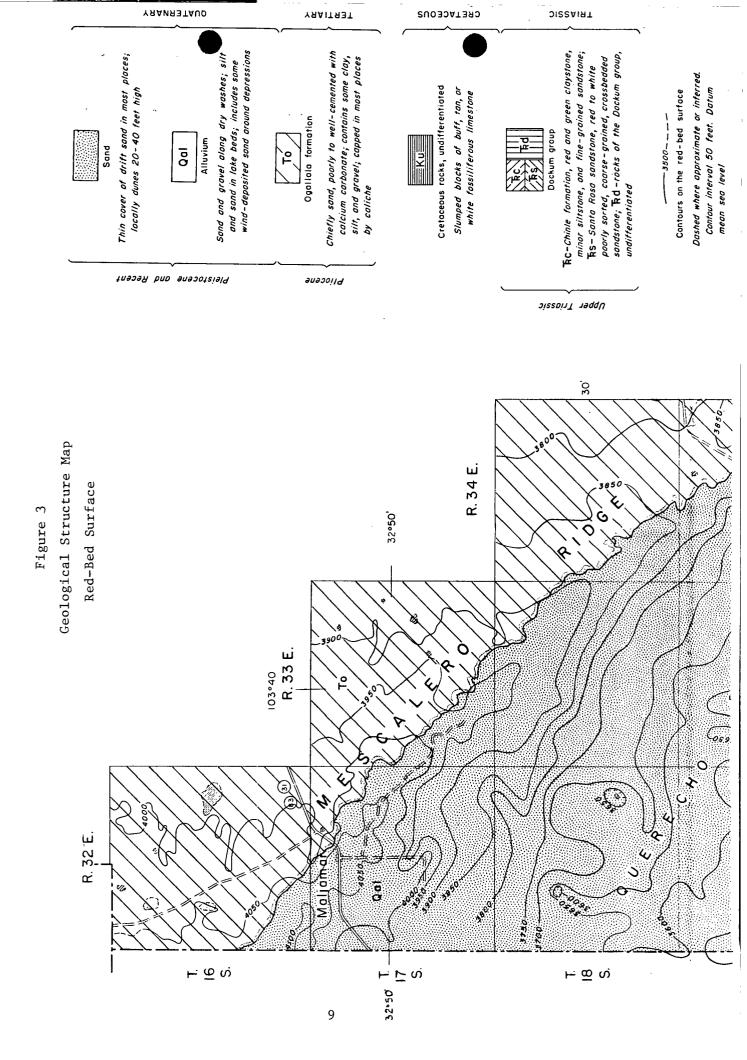


Figure 4 Fracture Calculations Steve Carter & Sons

- Brine --> <-- Fresh Water Given: Saturated Brine @ 20°C Density = 9.98#/gal Hydrostatic Press = .5195 psi/ft V Fresh Water @ 20°C v Density = 8.33 #/galHydrostatic Press = .433 psi/ft Test Data From Sandia Labs Casing set WIPP Site @ 1000' Salt Section @ 2150' } Frac Press Min: 1950 psi -Top of ł ^ ł vł Salt 1100' Avg: 2170 psi . ^ Max: 2300 psi } £ Δ ł 3 } £ ^ í ł } ł Base of salt TD 2135' Using Min Frac Press Determine Frac Gradient Frac Gradient = Frac Press/Depth 1950 psi/2150 = 0.90698 psi/ft Estimate Min Frac Press at 2135' Min Frac Pressure = (.90698 psi/ft)(2135') Min Frac Pressure at 2135' = <u>1936 psi</u> Calculate Bottom Hole Pressure Using 400 Psi Max Injection Pressure Bottom Hole pressure = Hydrostatic Pressure of Fresh water + Hydrostatic Pressure of Brine water + Injection Pressure Bottom Hole Pressure = (1000')(.433 psi/ft) + (1135')(.5195 psi/ft) + 400 Psi Bottom Hole Pressure = <u>1423 Psi</u> Minimum Fracture Pressure is Greater than Maximum Bottom Hole Pressure, A 400 psi operating pressure will produce a bottom hole pressure well below (513 psi)

the minimum estimated frac pressure.

B. Hydrology:

Maljamar is located at the outer edge of the Ogallala and water in the immediate area is spotty. Wells, when successful, yield relatively low volumes of water. Because of this the city of Maljamar obtains its water from wells on top of the caprock located in Sections 26 and 35 of Township 16 South, Range 32 East.

A review of State Engineer records indicates only three water wells near the proposed brine well. All of these wells are outside of the 1/4 mile radius of review. There are additional wells in Maljamar but because of the city's location outside of any declared water basin, permits to drill wells are not required and records are incomplete. Figure 5 shows the location of those water wells on record with the state engineer in Roswell. Also attached are records from the State Engineers Office on these water wells (See Attachment "A").

Figure 6 is a water table and piezometric-surface contour map. Two set of contours are shown.

- Water table contours for the Ogallala formation and Quaternary alluvium.
- 2. Piezometric surface contours on Triassic aquifers.

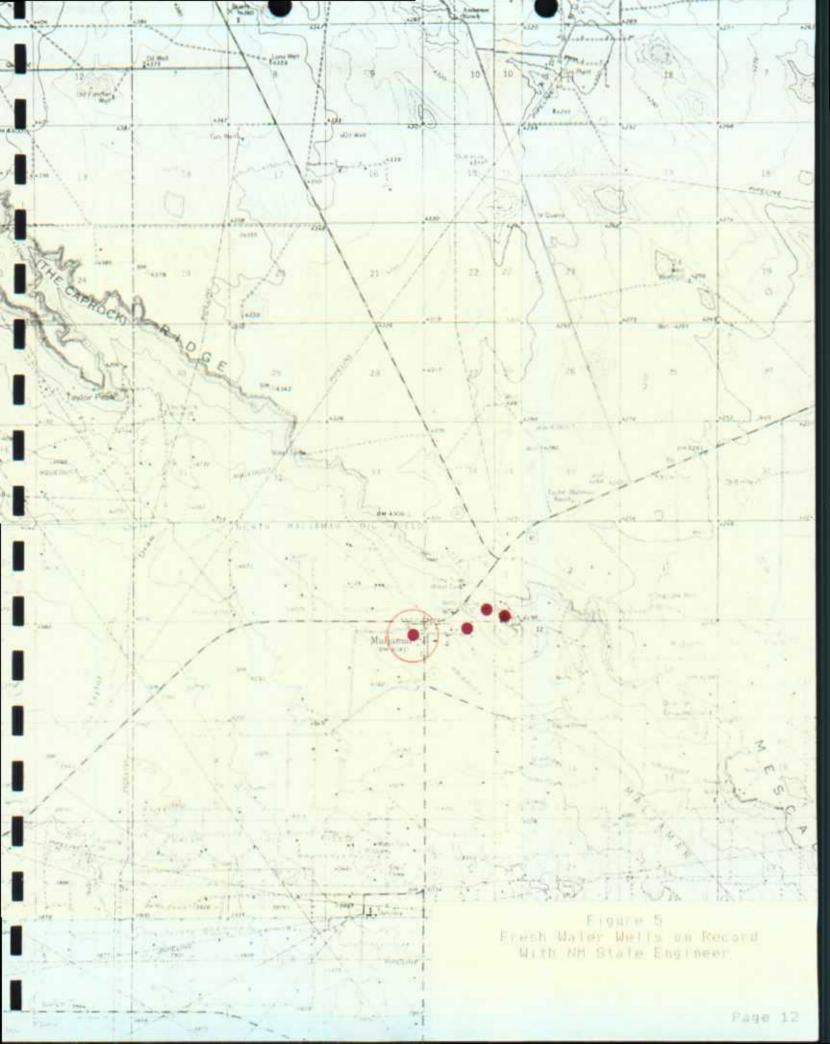
Water movement in the Triassic aquifers (Santa Rosa and Chinle) is toward the Southwest away from Mescalero Ridge. The area near Mescalero Ridge appears to be an area of recharge for the Santa Rosa. This is due to water which moves downward from the Ogallala and precipitation that infiltrates through the thin alluvium covering the triassic rocks Southwest of Mescalero Ridge.

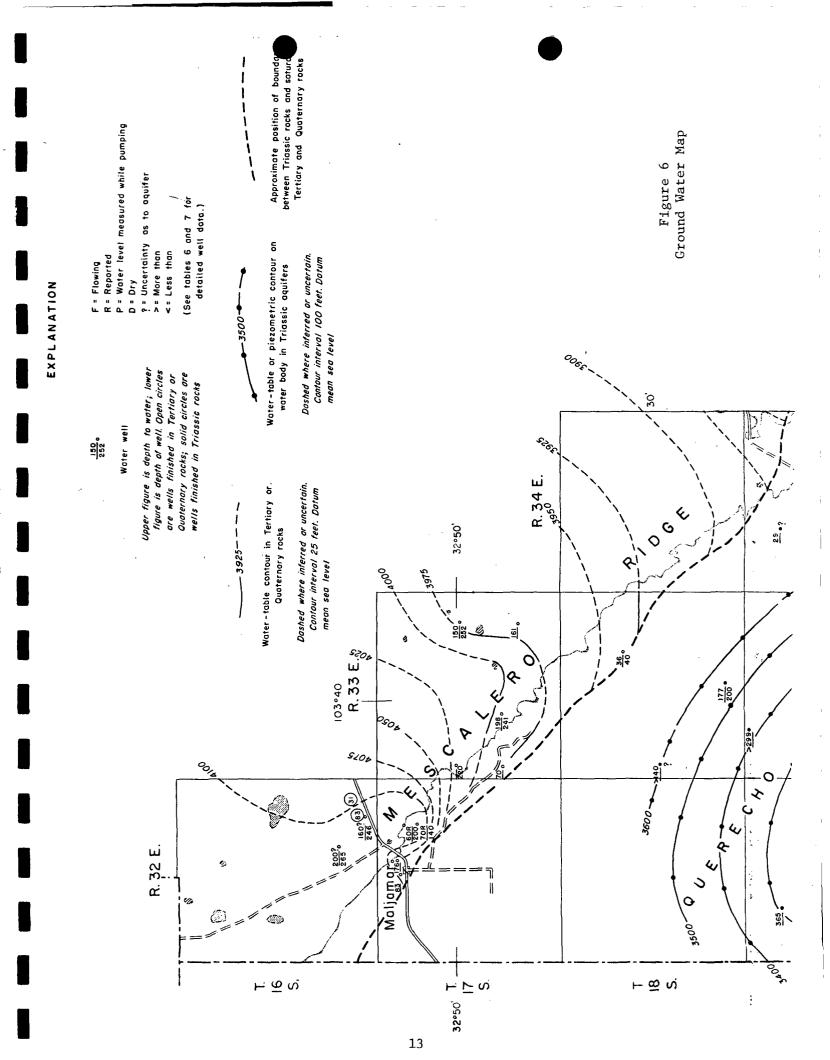
Water movement in the Ogallala is from Northwest to Southeast. This is caused to a great extent by the generally Southeastward slope of the redbed surface which underlies the Ogallala.

Recharge of the Ogallala is distributed evenly over the high plains; however, there may be some concentration of recharge at the escarpment due to greater rain fall along Mescalero Ridge and the alluvial fan deposits Southwest of the ridge.

The ground water most likely to be affected by a spill/leak is approximately 122 feet deep. An analysis of this water, from the Bud Mathues water well, is contained in Attachment "B". Also contained in Attachment "B" is an analysis of the water used for injection.

Samples of the water produced from selected wells will be analyzed yearly for quality.





IV. PROCEDURES TO PROTECT GROUND WATER

A. Wells In Area of Review:

There are two (2) abandoned wells or shafts in the area of review which penetrate the injection zone. These wells have been plugged according to OCD requirements. Attachment "H" contains plugging records and completion information on these wells.

Figure 7 is an ownership plat showing all producing oil and gas wells, injection wells, and abandoned oil and gas wells within a 1/4 mile radius of the brine well.

B. Injection Well:

If there is a loss of mechanical integrity of the injection well, all operations will be suspended until remedial action can be taken to correct the potential source of water contaminations.

A loss of mechanical integrity will be detected by the following:

- 1. Five year pressure tests.
- Comparing volumes injected and volumes
 produced.
- 3. Any sudden changes in injection pressures.

Prior to the start of operations, the well casing will be tested to 1000 psi. Also at regular intervals, at least every five years, the casing will be retested to 1000 psi to \checkmark check for possible leaks. Steve Carter & Son will pressure test the well as follows:

- 1. Remove tubing.
- Set retrievable bridge plug at end of casing.
- 3. Pressure up on casing to 1000 psi.
- Record pressures for 15 minutes on pressure recorder.

This procedure will verify that there are no leaks in the scasing. Steve Carter & Son will notify the EID one day before the test is conducted and submit a report of the test results.

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The water injected and brine recovered will be metered by turbine meters located as shown on the system schematic (Drawing DW-01). The volumes injected and recovered will be compared to detect any underground losses. The system schematic (Drawing DW-01) shows locations of sample points used to obtain samples at the proposed brine well of water injected and brine produced for analysis.

C. Surface Facilities:

Drawing DW-02 is a plot plan of the proposed surface facilities. Fresh water lines above the ground will be insulated to protect them from freezing. The injection pump and brine lines will be protected by high/low cut off switches. These switches will shut the injection pump down in the event of a line break (low pressure) or a line blockage (high pressure). This will prevent the loss of large quantities of brine in the event of a line breaking.

At the facility brine will be stored in two (2) 1000 barrel tanks. These tanks will be surrounded by a burn or dike which will contain the brine in the event of a spill.

D. Spills:

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Spills will be prevented during loading by connecting trucks directly to the loading line before any valves are opened to allow brine to be pumped onto the trucks. After the trucks are loaded all valves will be closed before disconnecting to prevent spillage of brine water. All trucks will be loaded on a 20' X 45' concrete loading pad. This pad will be constructed such that any brine spilled will flow toward its center where a drain to the sump is located. The <u>sump of</u> the loading pad will be concrete lined. This will prevent any minor spills from contaminating ground water.

As this facility will only be producing brine, it is the main material which may be spilled. Small amounts of hydrocarbon residue inside the trucks could possibly be spilled if a truck is filled to overflowing. This will be prevented by careful monitoring of the trucks during loading. A timer will also be tied into the loading pump motor circuit so that the pump will only run for the amount of time required to pump 150 barrels of brine. When this time has elapsed the pump will automatically shut off. This will act to limit the amount of brine which may be spilled by overflowing a truck. If a truck is overflowed, the brine and any other material spilled would be collected in the sump of the loading pad and later disposed of at an approved disposal well. In the event of a major spill at the surface facilities the following will be done:

> If a spill occurs, contaminated soil will be removed and disposed of at a location approved by the state.

A major spill would be any spill which causes brine to get off of the facility site. Steve Carter & Son will report any significant spills and/or loss of mechanical integrity of the well to the EID as required in Section 1-203.A.1 and 5-208.B.1 of the WQCC regulations.

Plugging & Abandonment:

At such time when this injection well is ready for plugging and abandonment, the well will be plugged as per Attachment "D" (Plugging Procedure). This plugging procedure will be approved before any plugging operations begin.

A plugging bond is offered as proof of financial responsibility to properly abandon this well. (See Attachment "E")

V. Flooding Potential

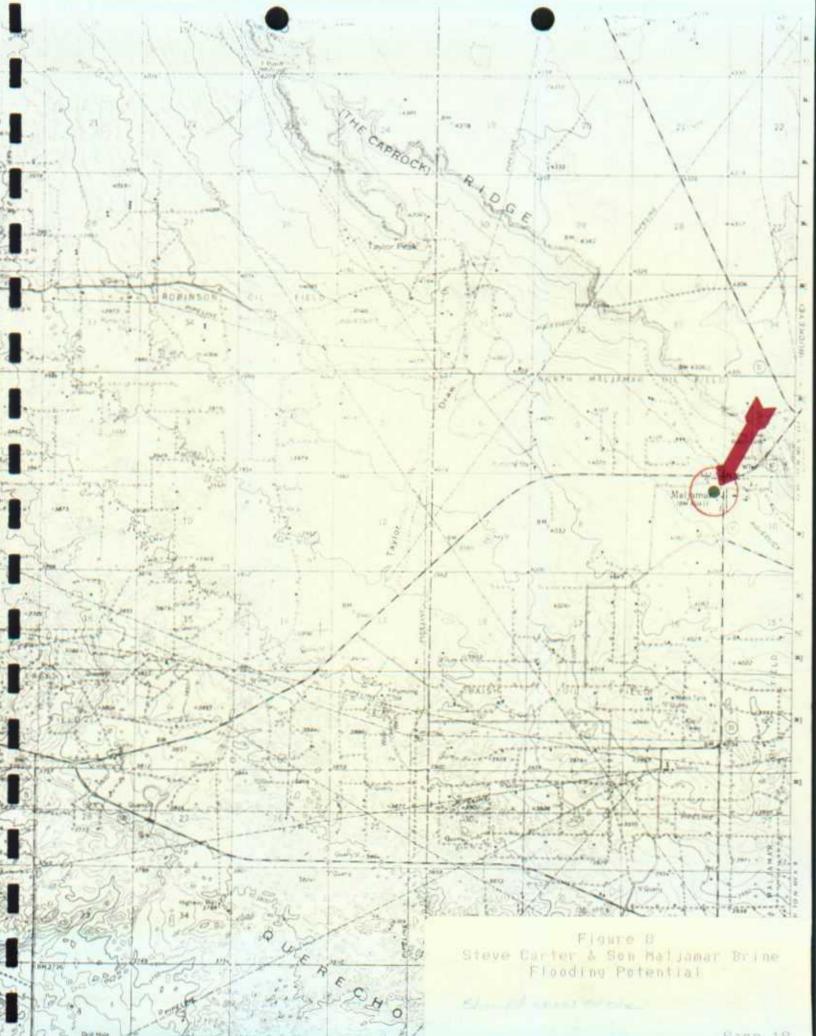
Ε.

problem

The proposed brine well is located just off the caprock (Mescalero Ridge) in an area of stable to semistable dune sand. Figure 8 is a map showing the flooding potential of the site.

Drainage in the area is to the Southwest away from the well site. Areal drainage toward the site should be minimal due to the relative closeness to The caprock where drainage is to the Southeast and the sandy soil in the area which absorbs runoff very rapidly.

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VI. SIGN-OFF REQUIREMENT

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

lings on Ron Billingsley Steve Carter & Son 4

10/7/85

References

The references and sources of information used in preparing this discharge plan were:

- USGS Ground-Water Report 6 Geology and Ground Water Conditions in Southern Lea County New Mexico A. Nicholson Jr. and A. Clebsch Jr.
- 2. The U.S. Corps of Engineers
- Well logs and sample records from New Mexico State Engineer Roswell, New Mexico
- 4. Well Records and Electric Logs from N.M. Energy & Minerals Department - Oil Conservation Division Hobbs, New Mexico
- 5. U.S. Minerals Management Service

Attachments and Drawings Steve Carter and Son Maljamar Brine

Attachment "A"

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State Engineer Records of Water Wells Within the Area of Review

Revised June 1972

STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION

(A)	Owner of well				Owner	r's Well No.	
	Street or Post Office A	ddress					
	City and State	· · · · · · · · · · · · · · · · · · ·		<u></u>			
Well	was drilled under Permit	No		and is located in t	he:		
	a ¼ ½	4 ¼	¼ of Section	Township	Ran	ge	N.M.P.M.
	b. Tract No	of Map No		_ of the			
	c. Lot No	of Block No.		of the			
	Subdivision, recorde						
		-		- feet, N.M. Coordinate Syst			
(B)	Drilling Contractor			L	icense No		
Add	ress	• 					
Drill	ing Began	Comple	ted			Size of hole	in.
Elev	ation of land surface or _			at well is fi	t. Total depth	of well	ft.
Con	pleted well is 🔲 s	shallow 🔲 arte	esian.	Depth to water upo	n completion	of well	ft.
		Sectio	n 2. PRINCIPAI	LWATER-BEARING STRA	ТА		
	Depth in Feet	Thickness				Estimated	Y ield

Depth	in Feet	Thickness		
From	То	in Feet	Description of water-Bearing Formation	(gallons per minute)
	1	I		

Section 3. RECORD OF CASING

Diameter	Pounds "	Threads	Depth in Feet		Length	Length	Type of Shoe	Perfora	tions
(inches)	per foot	per in.	Тор	Bottom	(feet)		From	То	
		1							
				· ·					

Section 4. RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of Mud	of Cement	Method of Flacement
					· · · · · · · · · · · · · · · · · · ·
					· ·

Section 5. PLUGGING RECORD

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			Dottom	or cement
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	- 3			
State Engineer Representative	4			
-	State Engineer Representative	3	3	3

File No._

Quad	FWL	FSL
Use011	_ Location No. 17.32.	3.4323334

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Deptu		Thickness	Color and Type of Material Encounteres	
From	To	in Feet		-
	40		Caliche	
40	116		Anhydrite and sand	· · ·
116	150	· · ·	Sand	
150	363		Red bed	
363	695		Red bed and shells	· [
695	990		Red shale with shells	<u>.</u>
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Section 7. REMARKS AND ADDITIONAL INFORMATION

Elevation: 4284' GL

Driller

This well record is an excerpt from Oil Conservation Commission files at Hobbs, N.M.

Location: 17.32.3.4323334 Owner: Chevron U.S.A. Inc. Maljamar (Grayburg) Unit #12 Record of Casing: 8 5/8" - 1344'

Rotary

660' FSL - 1905' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A cons. exc. Section 5, shall be answered as completely d accurate possible when any well is drilled, repaired or deepend when this is used as a plugging record, only Section 1. and Section meed be completed.

Revised June 1972

1	WE	LL	RE	co	RD	

STATE ENGINEER OFFI

i.

(A)	Owner of	well						Ow	ner's Well I	No	
• •	Street or F	ost Office A	ddress	<u> </u>							
	-		<u> </u>			<u> </u>					
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	-	ontractor	-					License No.			,
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Drillin	ng Began _	<u>.</u>	Com	pleted		Тур	e tools		Size	e of hole	
Eleva	tion of lan	d surface or .		_		t well is	<u></u>	_ ft. Total dep	th of well.		
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Addro Plugg Date Plugg	ess ing Metho Well Plugg	d ed ed by: 		gincer Repres	entative OF STAT	TE ENGIN	1 2 3 4	Y ·			
Addro Plugg Date Plugg	ess ing Metho Well Plugg ing approv	d ed ed by: 	State En	gincer Repres	entative OF STAT		1 2 3 4				

Depth in	n Feet To	Thickness in Feet	Color and Type of Material Encountered
0	115		Caliche 7
_115	255		Red rock
255	290		Sand
290	1055		Red rock
			······································
		•	
			LS Elev 4285 4285
			Depth to K 210 Trc 1.3 Elev of K 3925 Trc 4/ 20 7
		<u> </u>	Elev of K-72-11C-27-28
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		· · · ·	
			······································
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		<u> </u>	· · · · · · · · · · · · · · · · · · ·
			7. REMARKS AND ADDITIONAL INFORMATION

Location: 17.32.3.44300 Owner: Chevron Oil Co. Maljamar (Graybarg) Unit #14 Record of Casing: 8 5/8" - 1275'

Rotary

330' FSL - 990' FEL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Elevation: 4285' DF

Driller

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INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. A ins, exont Section 5, shall be answered as completely indiaccurat in possible when any well is drilled, repaired or deepend. When this is used as a plugging record, only Section 1, and Section indiaccurat in freed be completed.

STATE ENGINEER OFFIC

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

Form WR-23

/ FIELD EHM. LOG

(A) Owner of well Jacar 1 Jaca	
City	State
Well was drilled under Permit No.	and is located in the
(B) Drilling Contractor C. U. Al Street and Number LUX 2'	Lizeu ,6 License No
 City Louis Lou	State
Drilling was commenced	DUCEMUER 23 19 61
Drilling was completed	.uary 1, 10 U

エシロ Elevation at top of casing in feet above sea level.Total depth of well. 132 State whether well is shallow or artesian Goulton Depth to water upon completion.

No.	Depth i	n Feet	Thickness in	Description of Water-Bearing Formation			
110.	From	То	Feet				
1	132	150	24	ked water Sand	~		
2							
3							
4					~~~~		
5							

Section 3	3			RECORI	D OF CAS	ING			
Dia	Pounds	Threads	Depth		Feet	Type Shoe	Perforations		
in.	ft.	in	Тор	Bottom	reel	Type Suce	From	То	
0 5/	o huin	ea	0	יילד	150	10110	130	150 ·	
								· · · · · · · · · · · · · · · · · · ·	
	ł	1	1	1 1			- T		

Section 4			RECORD	OF MUDDING AN	ID CEMENTING
			er Tons No. Sacks of	Methods Used	
From	То	Hole in in.	Clay	Cement	
	· · · · · · · · · · · · · · · · · · ·	7	<u>,,</u>		5 SACKS OF CRITTER
					TH TOP OF HOTE METE OFTITIS
		1		1	HETT TO WEED DOTE TANK CRATHR
			····		

Section 5	PLUGGING	FRECO	RD			÷
Name of Plugging Contracto	r				License No	
Street and Number		ity	···	S	itate	.
Tons of Clay used	Tons of Roughage used	*******	····	Type of	roughage	
Plugging method used			Dat	e Plugged		۱ —
Plugging approved by:)		Cemen	t Plugs wer	e placed as follows:	•
		No.	Depth	of Plug	No. of Sacks Used	1
	Basin Supervisor		From	То	NO. OF BACKS USED	Ŀ
for use of state	STATE ENGINEER OF					
Date Received	B MA 81 NAL 2321					-
File No. M.3c. 2.	6-59 Use	Qom	L	ocation No	17.32.10122	-



Section 6

1 3			
	·	LOG OF WEL	L

Depth i	in Feet	Thickness		
From	То	in Feet	Color	Type of Material Encountered
;	2	2	1) COWER	HOP JULL
ł		7	w. isc	(ALIGINIG
42	112	Lite	1. Carolanda	Spirit vites
122	د رژم.	24	<u>Deria</u>	าเลย เปรี่ (เม.ศ.
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The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

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C. O. al bredg Well Driller

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Attachment "B"

Water Analysis Injected Water Ground Water

			· •	• •
P. O. BOX 1468 MONAHANS, TEXAS 79756 H. 943-3234 OR 563-1040	Martin Water Laboratories	· 2.	M	709 W. INDIANA IDLAND, TEXAS 7970 PHONE 683-4521
	RESULT OF WATER AN		e e e e e e e e e e e e e e e e e e e	
*. <u> </u>	LAE	ORATORY NO.		
ro: data Janaca, Jr.	sam	PLE RECEIVED	1 to all all all all all all all all all al	
2206. Hobbs, NA	RES	JLTS REPORTED.	<u>. Marina D</u>	
COMPANY AND READURCES	LANGESING. INSEEASE		100 1 20	
FIELD OR POOL				· · ·
SECTION BLOCK SURVEY _	COUNTY	ST/	ATE	
SOURCE OF SAMPLE AND DATE TAKE		•	.4	•
NO. 1 RALES MA DE MASSELLES	a Ind Lasternic Brins.	6-2-2-2		•
NO. 2 - Mar Sauder - Lunca 11			LARE OF DT	oposed batters
		<u> </u>		
NO. 3				
NO. 4				
REMARKS:			, 	
C	HEMICAL AND PHYSICAL PR	OPERTIES		·
1994 - Maria Mandalli, and an anna anna anna anna anna anna a	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	NO. 1	NO. 2	NO. 3	NO. 4
pH When Sampled	·····	to the second of	NO. 3	NO. 4
pH When Sampled pH When Received	A Courses	and the second sec	NO. 3	<u>NO. 4</u>
pH When Sampled pH When Received Bicarbonate as HCO ₃	2.664.	to the second of	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCQ3	A Courses	a di a manda	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3	A Courses	and a month	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO ₃ Supersaturation as CaCO ₃ Undersaturation as CaCO ₃ Total Hardness as CaCO ₃	in the second	2	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca	in der son	Land a manda a la	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg	in the second	2	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium	in der son	2.01.1.1.1.2.1 3.2.2.2 2.2.2.2 2.2.2.2 2.2.2 1.4. 1.4. 1.4. 1.4.	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4	in der son	2. 6 1. 10 10 1 3. 6 10 2. 7	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4 Chloride as Cl		2. 6 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4 Chloride as C1 Iron as Fe	A Constant of the second of th	2. 6 1. 10 10 1 3. 6 10 2. 7	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4 Chloride as Cl		2. 6 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4 Chloride as C1 Iron as Fe		2. 6 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	NO. 3	NO. 4
pH When Sampled pH When Received Bicarbonate as HCO3 Supersaturation as CaCO3 Undersaturation as CaCO3 Total Hardness as CaCO3 Calcium as Ca Magnesium as Mg Sodium and/or Potassium Sulfate as SO4 Chloride as C1 Iron as Fe Barium as Ba		2. 6 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	NO. 3	NO. 4

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks Basel on the Cateranalisms and Lucad Mereia, 40 400 20. Which at 91 algobing ununual about alguer of these waters. If we can be all say soelseance in interpreting the results for good particular objectives, when a contract was

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May have the Martisty Marks

Form No. 3

Temperature °F.

Hydrogen Sulfide

Suspended Oil

Carbon Dioxide, Calculated Dissolved Oxygen, Winkler

Resistivity, ohms/m at 77° F.

Filtrable Solids as mg/i Volume Filtered, ml Nitruce: an N Attachment "C"

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Plugging Records of P&A Wells Within the Area of Review

		¥
Ferm C-103		DEC 1 1947
I PLICATOR CONSERVAT	TION COMMISSION	
Santa Fo, 1	New Mexico	HOBBS OFFICI
MISCELLANEOUS R		
	ICFUNIS UN WELLS	
Sumbit this report in triplicate to the Oil Conservation Con specified is completed. It should be signed and sworn to b	nmission or its proper agent within ten	days after the work
tions, results of shooting well, results of test of casing shut tions, even though the work was witnessed by an agent of the	off, result of plugging of well, and oth	ter important opera-
signed and sworn to before a notary public. See additional in	structions in the Rules and Regulations	of the Commission.
Indicate nature of re	port by checking below.	
REPORT ON BEGINNING DRILLING OPERA-	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEM- ICAL TREATMENT OF WELL	REPORT ON PULLING OR OTHI ALTERING CASING	ERWISE
REPORT ON RESULT OF TEST OF CASING	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUCGING OF WELL		
November	28, 1947 Hobbs,	New Next co
OIL CONSERVATION COMMISSION,	Date	Place
SANTA FE, NEW MEXICO. Gentlemen:	· .	
Following is a report on the work done and the results obta	ined under the heading noted above at	the
The Ohio Oil Company A. C. T		in the
Company or Operator SE/4, NE/4 of Sec. 9	Lease	
West Roberts	Τος	, N. M. P. M. ,
The dates of this work were as follows:		County.
Notice of intention to do the work was (DEDICATED) submit	ted on Form C-102 on November 24	19.47
and approval of the proposed plan was (warrained) obtained		-
DETAILED ACCOUNT OF WORK		<i>y</i>
Total depth 4026' White Dolomite. Well has following procedure: 1380' of 51' csg. was		
4026' up to 3758', a 10 sax plug was set in	top of 52" csg. (which was]	left in hole @ 1380
and was set thru salt section @ 3840; and c	emented W/500 sax) all interv	rals between plugs
were filled with heavy mud laden fluid, san casing was set @ 1105' cemented W/300 sax c		
circulated, the top 20' of this string was		
set in cement to extend 51 above surface.		
Witnessed by J. B. Reese T	he Ohio Oil Company	Forenan
Name	Company	Title
	I hereby swear or affirm that the infor	mation given above
Subscribed and sworn before me this	is true and correct.	A SHE STAN
28 day of November 1947	Name J. S. Aleren	F-1-01/2, No
J. M	Position Superintendent	12/16 4 26.10
Elm. Gellen		YES CONT
Notary Public My Commission Expires August 19, 1951	Representing The Ohio Oil Compa Company or Operato	r Color is
	Box 1607, Hobbs, New L	141. V IN 18 NO
My commission expires Errschurg AUG Remarks:		
Remarks:	UST, IST, RAZ UN	stan infeli
APPROVED	Out a As-	Name
Det. 1 1947	U-Jus I	NSPECTOR
Date	······································	Title

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			U_{\perp}	4 1. TVY	
PORM C-105	. *	1.1 - 11 - 1 1.1 - 11 - 11 - 11 - 11 - 1	ب د لا لا	JEUVI	зU
	NEW MEXICO OIL CON	SERVATION	COMMISSION.	0.0000	
		, New Mexico	MERCIE	Sinter (ł۰
	• • • • •	- 1. Î	DEC 1 5	1947	đ.
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	WELL	RECORD	HÓBBS C	FFICE	
	• : [*]	<u>\</u> 11	CANE -	- 679	
	• S J L HAR CHAR		L :		
	Mail to Oil Conservation Commission, i	Santa Fe, New Mer	dco, or its proper age		
<u>├─┼─┼─┼─</u> ┤	Buies and Begulations of the Commissio	plation of well. Fo su. Indicate questi	llow instructions in t enable date by followi	be satat	•
	it with (?). SUBMIT IN TRIPLICATE. UNTIL FORM C-105 IS PROFERLY FI	FORM 0-110 WIL	L NOT BE APPROVE	10 50.52	
AREA 640 ACRES LOCATE WELL CORRECTLY		1		·	Ť.
The Ohio Oil Company	. solacter yet of Ho	bbs, New Me		<u> 2005</u>	Ϋ́,
Company or Operator					
A. C. Taylor "D" Well	No 1 inSE/4. NE/4	£ 600	т	S.	. *
A. C. Taylor "D" Well Lesse	No 1 in SE/4, NE/4	£ 500	, т <u></u> 7=	·S	- *
<u>A. C. Taylor "D"</u> Lesse B. <u>32-E</u> , N. M. P. M. W	No. • 1 in SE/4, NE/4 o	£ 500.9	, т <u>. 1</u> 7-	County.	- 1
A. C. Taylor "D" Lesse B. 32-E., N. M. P. M., W Well is 1980 feet south of the Nor	No. <u>1</u> in SE/4, NE/4, of est Roberts Field, th line and 660 feet weet of th	1 800	, т <u>. 1</u> 7-		- b
A. C. Taylor "D" Lease B. 32-E. , N. M. P. M. W Well is 1980 If State land the oil and gas lease is No	No. <u>linse/4.NE/4.o</u> est_RobertsField,	f Sec. 9 LBA	т. 17- Sec. 9-17-32		
A. C. Taylor "D" Lesse B. 32-E., N. M. P. M., W Well is 1980 feet south of the Nor	No 1 in SE/4. NE/4. o. ast. Roberts Field, th line and 660 feet weet of th Assignment No. . Taylor	f Sec. 9 LBA	, т <u>. 1</u> 7-		
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A. C. Taylor "D" Lease B. 32-E. N. M. P. M. Well Well is 1980 If State land the oil and gas lease is No If patented land the owner is A. C. If Government land the permittee is The Lease is	No. 1 in SE/4. NE/4. o. est. Roberts Field, th line and 660 feet weet of th Assignment No. . Taylor	f See9 LOR 10 East line of Address		Mexico	
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A. C. Taylor *D* Lease B. 32-E, N. M. P. M., Well Well is 1980 feet south of the Nor If State land the oil and gas lease is No If patented land the owner isA. C. If Government land the permittee is The Lease isThe Ohio Oil Co Drilling commenced 10-4-1947 Name of drilling contractor C. E. Elevation above sea level at top of casing. The information given is to be kept confid No. 1, from	No. 1 in SE/4. NE/4. o ast. Roberts Field, th line and 660 feet west of th Assignment No. . Taylor mgany 	f Sec9 LDB te East line of	, T Sec. 9-17-32 aljamar, New obbs, New Mex -1947 a. City, Okla	Mexico tico	
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A. C. Taylor *D* Lease R. 32-E, N. M. P. M.,	No. 1 in SE/4. NE/4. o ast. Roberts Field, th line and 660 fost west of th Assignment No. a Taylor moany 19 Drilling was con Blount Drig. Co. 4124 fost. lential until OIL SANDS OF ZONES 4000 No. 5, from 4026 No. 5, from No. 6, from IMPORTANT WATER SANDS elovation to which water rese in hole. to	f Sec. 9 LOB te East line of , Address. M , Address. M mpleted. 11-6 , Address. Okl , Address. Okl	, T17- Sec. 9-17-32 aljamar, N ₉ w obbs, Ngw Mex -1947 a. City, Okla to to	Mexico tico	
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A. C. Taylor *D* Lease R. 32-E, N. M. P. M.,	No. 1 in SE/4. NE/4. o est. Roberts Field, th line and 660 feet west of th Assignment No. . Taylor . Taylor . Taylor . Taylor . Taylor . Taylor . Taylor 	f 600	, T 17- Sec. 9-17-32 aljamar, N ₉ w obbs, Ngw Mex -1947 a. City, Ckla 19	Mexico tico	

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SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF	CUT & FILLED	PERF	ORATED	PURPOSE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12.1001	FER INCH	MALS	AROUNT	BAUE	FROM	FROM	TO	FURFORE
8-5/8"	28#	8 rd	Spang	11001	HOWCO				
					1			-	·
5-1/2"	15.5#	8 rd	11	24521		well after	being s	shot off	
					@ 140	p1)			
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				· · · · · · · · · · · · · · · · · · ·				-	
**									

## MUDDING AND CEMENTING BECORD

SIZE OF HOLE	SIZE OF CABING	WHERE SET	NO. BACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
11"	8-5/8"	1092 ·	300	HOWCO		
7.	5-1/2"	24341	500	n (Shot of	f @ 1400+)	
Note and the	and and		ACCOR SHOW	ALL STREET AND AND A STREET		an han an ann a' an

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Form 9-331	UNIT STATES SUBMIT IN TRIPLE	Form approved. Budget Burgan No. 42-R1424.
(May 1963)	DEPARTMEN THE INTERIOR (Other instructions)	5. LEASE DESIGNATION AND SERIAL NO.
		8. 1P INDIAN, ALLOTTEE OR TERE NAME
(Do not	SUNDRY NOTICES AND REPORTS ON WELLS use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)	
i.		7. UNIT AGREEMENT NAME
OIL U	WELL OTHER Water Injection Well	Maljamar (Grayburg)
2. NAME OF OPE		8. FARM OR LEASE NAME
Chevron	Oil Company State NEWEWE	Maljamar Unit
3. ADDERSS OF		9. WELL NO.
4. LOCATION OF See also space	WELL (Report location clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT Malfamar
At surface	U. S. GEOLOGICAL SURVE HOBBS, NEW MEXICO	Grayburg-San Andres 11. SBC., T., R., M., OB BLE. AND SUBVET OF ABAS
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Unit B,	330' FNL & 1980' FEL, Section 9, T-17-S, R-32-E	T-17-S, R-32-E, NMPM
14. PERMIT NO.	15. ELEVATIONS (Show whether DF. RT. GR. etc.)	12. COUNTY OF PARISH 13. STATE
	GR 4116	Lea New Mexico
16.	Check Appropriate Box To Indicate Nature of Notice, Report, or C	Dther Data
·	NOTICE OF INTENTION TO: SUBJECT	DENT REPORT OF:
		REPAIRING WELL
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REPAIR WEL		
(Other)	(Nors: Report results Completion or Recompl	of multiple completion on Well letion Report and Log form.)
17. DESCRIBE PRO proposed w nent to this	DOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, work. If well is directionally drilled, give subsurface locations and measured and true vertice s work.)*	including estimated date of starting any al depths for all markers and zones perti-
8-23-75	Dug pit. Move in rig up pulling unit.	р на ф
8-25-75	Pulled out of hole with tubing. Ran in hole with tubi to circulate hole with mud laden fluid with out succes	ing to 3700 ¹ . Attempted ss. Spotted 25 sacks
	cement, pulled tubing.	
8-26-75	Ran tubing and tagged cement at 3510'. Attempted to a	irculate without success.
	Pulled tubing to 2400', spotted 30 sacks cement. Pull	led tubing and waited on
	cement. Ran in hole and tagged cement at 2131'. Atte	empted to circulate without
	success. Pulled tubing to 1000', spotted 35 sacks ce	ement. Pulled tubing and
	waited on cement. Ran in hole did not tag plug. Ran	tubing to 1000 [†] and
	spotted 35 sacks cement. Pulled tubing.	
·		liched circulation
8-27-75	Tagged cement at 1100'. Ran tubing to 1000' and estat	Parforated 5 1/2" against
1	Pumped 35 sacks cement. Pull out of hole with tubing.	ment circulating to
	at 344'. Established circulation. Pumped 90 sacks ce	1 to surface.
	surface via 8 5/8" x 5 1/2" annulus leaving 5 1/2" ful	LI CU BUILICCE VILLE
o =-	Technology Dealefilled at Closed up loss	tion as per "Statement
9-11-75	Installed 4' marker. Backfilled pit. Cleaned up loca of Surface Restoration Intention" filed 6-30-75.	icani as her presentent
	of Surface Restoration intention filled 0-30-73.	
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18. I hereby cert	ify hat the top going is true and correct	
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Porm 1-331	L TD STATES		E. Form approved.
(Ma) 1963	DEPARTMENT OF THE INTE		
	GEOLOGICAL SURVEY	3°-	LC 064150
			6. IF INDIAN, ALLOTTEE OR TRIDE MAME
· · · · · · · · · · · · · · · · · · ·	SUNDRY NOTICES AND REPORTS ise this form for proposals to drill or to deepen or pluse "APPLICATION FOR PERMIT—" for sur		
1.	Use "APPLICATION FOR PERMIT-" for su	th proposals,)	
011 011	WELL OTHER Water Injection	REGENTER	7. UNIT AGREEMENT NAME
2. NAME OF OP		a well a c l l l l	Maljamar (Grayburg)
Č Chev	con Oil Company	101 1 1070	Maljamar Unit
3. ADDRENS OF			9. WELL NO.
<u> </u>	Box 1660, Midland, Texas	C. CECLODICAL SHOW	52
See also apu At surface	* 17 below.)	any state requirements.	Y 10. FIELD AND POOL, OR WILDCAT
	13 AA 19 AA	is and some raide	Maljamar (Grayburg-SA) 11. BEC., T., B., M., OR BLK. AND BURVET OR AREA
Unit D, 6	50' FNL, 690' FWL, Sec 10, T-17-	S, R-32-E NMPM	Sec 10, T-17-S, R-32-E N
14. PERMIT BO.	15. ELEVATIONS (Show whethe	-	12. COUNTY OF PARISH 18. STATE
	Not Available	······································	Lea New Mexico
16.	Check Appropriate Box To Indicate	Nature of Notice, Report, or	Other Data
	NOTICE OF INTENTION TO:		BQUENT REPORT OF:
TEST WATE	BEUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
* FRACTURE 1		FRACTURE TREATMENT	ALTERING CABING
SHOOT OF A	IDIZE ABANDON*	BEGOTING OR ACIDIZING	ABANDUNMENT
BEPAIR WE	CHANGE PLANS	(Other)	its of multiple completion on Well
(Other)	TONED OR COMPLETED OPERATIONS (Clearly state all perti	Completion or Recor	mpletion Report and Log form.)
t t - 1 - 5	an in hole with tubing. Set 25 subing to 2550', set 30 sacks cemulated signal with tubing. Perforated $5\frac{1}{2}$ " acks cement plug. Calculated to iside $5\frac{1}{2}$ " casing at 540'. Perforance scale scale and abandoned 10-8-76.	ent plug from 2550' to casing at 1100' with p of cement in 5½" by rated 5½" and 8½" cast casing. Cement did no	2300'. Pulled out of 4 shots. Pumped 130 8's" annulus at 540', ing at 200'. Pumped 40 at circulate. Well
Ĩ	asing will be cut of 2-3' below its and cellar will be back fill ederal or State requirements.		arker will be set
	· · · · ·	······································	
<del></del>	nan agam 19 an an 19 ang 19 ang Kamadana ana ang ara ang ang ang ang ang ang ang ang ang an	rnad ga da – a Hanab gantanan mgali man artum ingelikka kangadan	
			6 1
18. I hereby ger	ify that the foregoing is true and correct	·····	
BIGNED	C. Kidens J. C. Ridens TITLE_	Drilling Assistant	10-28-76
the second se	or Federal or State office use)		ADDOOVED
	and the second		APPROVED
APPROVED CONDITION	BY TITLE TITLE		
			JUN 21 1977
	•		BERNARD MOROZ
	*Saa lastructi	ons on Reverse Side	ACTING DISTRICT ENGINEER

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DISTRIBUT			· · · ·
NTAFE		FOR ALLOWABLE	Form C-104 Supervedes Old C-104 and C-110
.LE .S.G.S.	-	AND	
AND OFFICE	- AUTHORIZATION TO TR.	ANSPORT OIL AND NATURAL	GAD U
TRANSPORTER OIL			с.
GAS OPERATOR	-	• MAY	1, 1970, STANDARD OIL
PRORATION OFFICE	-	COM	PANY OF TEXAS IS CHANG.
Operator Standard Oil Comp	any of Texas	CHEV	IS OPERATING NAME TO
A Division of Che	vron Oil Company	· · · · · ·	
Address 3610 Avenue S Snyder, Texas 795	49		
Reason(s) for filing (Check proper bo		Other (Please explain)	
New Well	Change in Transporter of:	المتقدمة فلاقت المالح	name and well number due
Recompletion Change in Ownership			a KYE Bodemal 40
	Casinghead Gas Conde		s "X" Federal #2
If change of ownership give name and address of previous owner			
DESCRIPTION OF WELL AND	LEASE		
Maljamar (Grayburg) Uni	Well No. Pool Name, including F Lt. 52 Maljamar (Gray	burg-San Andres State, Federa	
Location	10-1 32 Inalfanal (Gray	burg-San Andresponde, real	or Foe Federal LC 064150
Unit Letter ;6	60 Feel From The North Lir	ae and690 Feet From	The West
Line of Section 10 To	wnship 17S Range	32E . NMPM. Lea	County
DECIONATION OF THE AVERAGE			
Name of Authorized Transporter of Oi	TER OF OIL AND NATURAL GA	Address (Give address to which appro	ved copy of this form is to be sent)
Texas New Mexico Pipeli	.ne	P.O. Box 1510, Midland,	
Name of Authorized Transporter of Ca		Address (Give address to which appro	
Phillips Petroleum Comp		P.O. Box 6666, Odessa,	
If well produces all or liquids, give location of tanks.	Unit Sec. Twp. Rge.	is gas actually connected? Wh	en (
	WATER INJECTION WELL	d	
COMPLETION DATA	th that from any other lease or pool,	give comminging order number:	
Designate Type of Completi	on - (X)	New Weil Workover Deepen	Plug Back Same Res'v. Dill. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations		<u> </u>	Depth Casing Shoe
Fertorations		•	Copin Coanty Silve
	TUBING, CASING, AND	CEMENTING RECORD	······································
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
		[	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·
TEST DATA AND REQUEST F	OR ALLOWABLE (Test must be a)		and must be equal to or exceed top allow
OIL WELL Date First New Oil Run To Tanka	Date of Test	pth or be for full 24 hours) Producing Method (Flow, pump, gas lij	(i, etc.)
	}		
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod, During Test	Qii-Bble.	Water-Bble.	Gas-MCF
Server From During 1461			
·	<u></u>	<b></b>	L
GAS WELL			· · · · · · · · · · · · · · · · · · ·
Actual Prod. Test-MCF/D	Length of Test	Bble, Condensate/MMCF	Gravity of Condensate
Tooling Mothod (pitol, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
		• •	
CERTIFICATE OF COMPLIAN	CE	OIL CONSERVA	TION COMMISSION
		1.0000	
I hereby certify that the rules and a Commission have been compliant	regulations of the Oil Conservation with and that the information given	APPROVED	and a second sec
above is true and complete to the	best of my knowledge and belief	BYOBCG (M. X. )	CERCES A COLUMN
PUDDL		TITLE	
SUM VAINTS			ompliance with RULE 1104.
E. W. McGants		If this is a request for allow	able for a newly drilled or deepened
· · · · · · · · · · · · · · · ·	sture)	well, this form must be accompany tests taken on the well in accord	hied by a tabulation of the deviation
District Engineer		All sections of this form mu	st be filled out completely for allow-
( / 1	/	able on new and recompleted we	the set 17 fee abandas of suites

April 28, 1967

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Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporten or other such change of condition Separate Forms C-104 must be filed for each pool in multiply completed wells. j.

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H0. OF COPIES RECEIVED         DISTRIBUTION         NTA FE         FILE         .G.S.         ND OFFICE         OPERATOR         SUNDRY NOTICES AND REPORTS ON WELLS         (D0 NOT USE THIS FOR PROPORTATION FO		f Lease Fee. X Lease No. Vame
DISTRIBUTION         NTA FE         FILE         J.G.S.         ND OFFICE         OPERATOR         IDO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPER OR PLUG BACK TO A DIFFERENT RESERVOIR.         100 NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPER OR PLUG BACK TO A DIFFERENT RESERVOIR.         1.         01L       GAS         well       OTHER.         20       Chevron U.B.A. Inc.         31       ddress of Operator <b>P. O. BOX 1660, Midland, Texas</b> 79702         4. Location of Well         UNIT LETTER       Q         THE       LINE AND 1980         FEET FROM THE NORM FROM THE NORMAL STORM FROM THE NORTH         1.       OTHER.         2       OTHER.         2       OTHER.         2       OTHER.         2       D. BOX 1660, Midland, Texas 79702         4. LOCATION of Well       UNIT LETTER         UNIT LETTER       Q         THE       LINE. SECTION 9         TOWNSHIP       17-8         NMPM.       15. Elevation (Show whether DF, RT, GR, etc.)	Supersedes Old C-102 and C-103 Effective 1-1-65 Sa. Indicate Type of State	f Lease Fee. X Lease No. Vame
DISTRIBUTION         NTAFE         FILE         G.G.S.         ND OFFICE         OPERATOR         IDD NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPER OR PLUG BACK TO A DIFFERENT RESERVOIR.         USE "APPLICATION FOR PERMIT	Supersedes Old C-102 and C-103 Effective 1-1-65 Sa. Indicate Type of State	f Lease Fee. X Lease No. Vame
NTA FE       NEW MEXICO OIL CONSERVATION COMMISSION         FILE	Supersedes Old C-102 and C-103 Effective 1-1-65 Sa. Indicate Type of State	f Lease Fee. X Lease No. Vame
FILE  I.G.S.  ND OFFICE OPERATOR  SUNDRY NOTICES AND REPORTS ON WELLS  IDO NOT USE THIS FORM FOR PROPOSALS TO DRILL ON TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  USE THAPPLICATION FOR PERMIT	Effective 1-1-65 Sa. Indicate Type of State 5. State Oil & Gas 1 5. State Oil & Gas 1 7. Unit Agreement P 8. Farm or Lease N Meljemer (Gr 9. Well No. 39 10. Field and Pool, Meljemer (Gr	f Lease Fee X Lease No.
FILE  I.G.S.  IND OFFICE  OPERATOR  SUNDRY NOTICES AND REPORTS ON WELLS  (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL ON TO DEFEND ON PLUG BACK TO A DIFFERENT RESERVOIR.  USE MAPPLICATION FOR PRAVISALS TO DRILL ON TO DEFEND ON PLUG BACK TO A DIFFERENT RESERVOIR.  OIL  OIL  CAS  OTHER.  Inde of Operator  Chevron U.B.A. Inc.  Iddress of Operator  D. O. Boar 1660, Nidland, Texas 79702  LOCGILON of Well  UNIT LETTER  OTHER.  IS. Elevation (Show whether DF, RT, GR, etc.)	Sa. Indicate Type of State	f Lease Fee. X Lease No.
ND OFFICE         OPERATOR         SUNDRY NOTICES AND REPORTS ON WELLS         IDO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.         USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)         OIL         GAS         WELL         GAS         WELL         OTHER-         Iame of Operator         Chevron U.B.A. Inc.         Address of Operator         P. O. Boar 1660, Midland, Texas 79702         Location of Weil         UNIT LETTER         Q       . 1980         FEET FROM THE NOR THE NUMBER OF TOWNSHIP 17-8         RANGE 32-22         NMPM.         15. Elevation (Show whether DF, RT, GR, etc.)	State 5. State Oil & Gas 1 5. State Oil & Gas 1 7. Unit Agreement N 8. Form or Lease N Meljamar (Gr 9. Well No. 39 10. Field and Pool, Meljamar (Gr	Fee. X Lease No.
OPERATOR         SUNDRY NOTICES AND REPORTS ON WELLS         IDD NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.         OIL USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.         OIL USE THIS FORM FOR PROPOSALS.)         OIL OR TO PROPOSALS.)         OIL OR TO PROPOSALS.)         OTHER-         Chevron U.B.A. Inc.         Address of Operator         P. O. Box: 1660, Nidland, Texas 79702         Location of Well         UNIT LETTER	5. State Oil & Gas 1 7. Unit Agreement P 8. Farm or Lease N <b>MELJamar (Gr</b> 9. Well No. 39 10. Field and Pool, MELJamar (Gr	Lease No.
SUNDRY NOTICES AND REPORTS ON WELLS IDO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT - " (FORM C-101) FOR SUCH PROPOSALS.) OIL GAS WELL OTHER. Tame of Operator Chevron U.S.A. Inc. Address of Operator p. O. Boost 1660, Nidland, Texas 79702 Location of Well UNIT LETTER	7. Unit Agreement N 8. Farm or Lease M Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ame <b>ame</b> <b>ayburg) Uni</b>
OIL GAS WELL OTHER- Tame of Operator Chevron U.S.A. Inc. Iddress of Operator p. O. Book 1660, Nidland, Texas 79702 Location of Well UNIT LETTER <u>G</u> <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>9</u> TOWNSHIP <u>17-8</u> RANGE <u>32-8</u> NMPM. 15. Elevation (Show whether DF, RT, GR, etc.)	8. Farm or Lease N Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ame ayburg) Uni
OIL CAS WELL OTHER- ame of Operator Chevron U.B.A. Inc. iddress of Operator p. O. Book 1660, Midland, Texas 79702 Location of Well UNIT LETTER	8. Farm or Lease N Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ame ayburg) Uni
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well	8. Farm or Lease N Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ame ayburg) Uni
Imme of Operator         Chevron U.B.A. Inc.         Address of Operator         p. 0. Book 1660, Midland, Texas 79702         Location of Well         UNIT LETTER       1980       FEET FROM THE WORTH         THE LINE AND 1980       FEET FROM THE WORTH         THE LINE, SECTION 9       TOWNSHIP 17-8       RANGE 32-8       HMPM.         15. Elevation (Show whether DF, RT, GR, etc.)	Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ayburg) Uni
Address of Operator <b>p. 0. Book 1660, Midland, Texas</b> 79702 Location of Well UNIT LETTER <u><b>Q</b></u> , <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u><b>East</b></u> LINE, SECTION <u>9</u> TOWNSHIP <u>17-8</u> RANGE <u>32-8</u> NMPM. 15. Elevation (Show whether DF, RT, GR, etc.)	Maljamar (Gr 9. Well No. 39 10. Field and Pool, Maljamar (Gr	ayburg) Uni
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L OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB		ž n
OTHER Temporarily abandoned		
Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including work) SEE RULE 1103.	estimated date of stat	rting any proposed.
future evaluation. Recent workovers in producers have been encoder are to evaluate the potential of all temporarily abandoned produc- warranted, return them to production. The Maljamar Unit No. 39 is safely cased and controlled and period field personnel. No hazard will be created by deferring abandons	cers, and if odically chec	
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hereby cardfu that the information shove is true and complete to the best of my knowledge and belief		
. I hereby certify they the information above is true and complete to the best of my knowledge and belief.		
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ED W. A. Goddeau Orlg. Signed Top	- •••• <b>0ct. 3</b> ,	
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Producting Interval(s         3808-4112 (         Type Electric and 0         BHC Sonic         CASING SIZE         8-5/8*         52*         SIZE         SIZE         Perforation Record (//         808, 10, 41,         807, 99         908, 21, 23,         0         089, 4108, 10         a First Production         8-20-65         a of Test         8-22-65         W Tubing Press.         Disposition of Gas (2	Interval, size and 43, 45, 57 37, 39, 47 D, 12 Produce Foold, used for fuer	In Andrea Andrea Andrea Andrea Andrea In Andrea CA CA CA (FT. DEPT (FT. DEPT	<b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b>	BI.         RD (Rep         HOI         11         7         EMENT         74,         66,         PROD         ft, pump         For         Tod	SCREEN 32. DEPTH 32. DEPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH 34. 0EPTH	CEME 150 829 400 825 30. SIZE 2-3/ ACID, SHOT, F INTERVAL 308-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112	to st comparison 8" RACTUR AM 2100 60,0 0 and 1ter - Bb	ECORD TUBING DEPTH SE 4050 E, CEMEN IOUNT AND Ogels Well C well C uter - Bbl.	RECORD T T SQUEEZ D KIND MA B gella Gas Oil Grave	AMOUNT F AMOUNT F BOR PACKER PACKER NOR CE, ETC. ATERIAL U 14 od. or SAut-1 Incr - Ofl Ratio	PULLED
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Bits       Sonic         3808-4112 (         Type Electric and O         BHS Sonic         CASING SIZE         8-5/8*         52*         SIZE         SIZE         Perforation Record (         808, 10, 41,         897, 99         908, 21, 23,         0         897, 4108, 10         897, 99         908, 21, 23,         0         897, 99         908, 21, 23,         0         897, 99         908, 21, 23,         0         897, 99         908, 21, 23,         0         897, 99         908, 21, 23,         0         897, 99         908, 21, 23,         0         89, 4108, 10         8, 22-65         w Tubing Press.         Disposition of Gas (Station	Interval, size and Hours Tested Produce Hours Tested 24 17 17 17 17 17 17 17 17 17 17	In Andrea Andrea Andrea Andrea Andrea In Andrea In Andrea CA CA CA (FT. DEPT (FT. DEPT	<b>SACKS CE</b> <b>SACKS CE</b> <b>SACKS CE</b> <b>70, 72,</b> <b>62, 64,</b> noing, gas lij Prod ⁴ n. F Test Per 4- Otl - ISD	<b>BI.</b> RD (R op         HOI         13         7         EMENT         74,         66,         PRODI         ft, pump         For         10         60	SCREEN 32. DEPTH 32. DEPTH 34. 63. 34. DEPTH 34. 63. 35. 011 – Bbl. Gds – N	CEME 150 829 400 825 30. SIZE 2-3/ ACID, SHOT, F INTERVAL 308-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112	<b>to m</b> <b>com</b> on <b>com</b> on <b>a</b> <b>a</b> <b>a</b> <b>b</b> <b>co</b> <b>co</b> <b>co</b> <b>co</b> <b>co</b> <b>co</b> <b>co</b> <b>co</b>	ECORD TUBING DEPTH SE 4050 E, CEMEN IOUNT AND OUNT	RECORD T T SQUEEZ D KIND MA Clatus (Pro Produc: Gas O:il Gravi Sed By Hardin	AMOUNT F AMOUNT F BOR PACKER PACKER NOR CE, ETC. ATERIAL U 14 od. or SAut-1 Incr - Ofl Ratio	PULLED
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Producting Interval(s 3808-4112 ( Type Electric and O BHC Sonic CASING SIZE 8-5/8" 51" SIZE Perforation Record (1 308, 10, 41, 97, 99 308, 21, 23, 308, 4108, 10 First Production 8-20-65 of Test 8-22-65 Tubing Press. Disposition of Gas (S Sold to Physical Solution hereby certify that NED	Interval, size and Hours Tested Produce Hours Tested 24 17 17 17 17 17 17 17 17 17 17	In Andrea Andrea Andrea Andrea Andrea In Andrea In Andrea CA CA CA (FT. DEPT (FT. DEPT	<b>SACKS CE</b> <b>SACKS CE</b> <b>SACKS CE</b> <b>70, 72,</b> <b>62, 64,</b> noing, gas li) Prod ⁴ n. F Test Per 4- Otl - 13b	<b>RI.</b> RD (R op         HOI         13         7         EMENT         74,         66,         PRODI         ft, pump         For         id.         60	Depth SCREEN 32. DEPTH 38 63, 36 UCTION ing – Size and OII – Bbl. Gas – N	CEME 150 829 400 825 30. SIZE 2-3/ ACID, SHOT, F INTERVAL 308-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112 08-4112	to mental second	ECORD TUBING DEPTH SE 4050 E, CEMENT IOUNT AND Sals Well C ater - Bbi. est Witness W.W.	RECORD T T SQUEEZ D KIND MA mud-eC C Gas Coll Grave Gas Oil Grave Seed By Hard L	AMOUNT F AMOUNT F BOR PACKER PACKER NOR CE, ETC. ATERIAL U 14 od. or SAut-1 Incr - Ofl Ratio	PULLED

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Southeastern New Mexico

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 20 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

#### Northwestern New Mexico

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Т.	Anhy	Т.	Canyon	Τ.	Ojo Alamo	Т.	Penn. ''B''
Т.	Salt	<b>T</b> .	Strawn	Т.	Kirtland-Fruitland	Т.	Penn. "C"
В.	Salt	Т.	Atoka	Т.	Pictured Cliffs	Т.	Penn. "D"
Т.	Yates	Т.	Miss	Т.	Cliff House	Т.	Leadville
Т.	7 Rivers	Τ.	Devonian	Т.	Menefee	Т.	Madison
Т.	Queen	Т.	Silurian	Т.	Point Lookout	Т.	Elbert
							McCracken
					Gallup		
	· • •				se Greenhorn		•
					Dakota		
					Morrison		
					Todillo		
Т.	Drinkard	Т.	Delaware Sand	Т.	Entrada	Т.	
т.	Abo	Т.	Bone Springs	Т.	Wingate	Т.	
T.	Wolfcamp	Т.		Т.	Chinle	Т.	
Т.	Penn	Τ.		Τ.	Permian	Т.	·
T	Cisco (Bough C)	т		Т.	Penn. "A"	Т.	

#### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness . in Feet	Formation	From	То	Thickness in Feet	Formation
Burface	3668	3668	Salt, red shale and enhy				1
3668	3976	308	Bolomite with streaks of send and anky				
3976	72	204	Bolomite with streaks and shale				
. · · ·			** <u>.</u>				
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DISTRIBUTION	DNSERVATION COMMISSION	Form C-103 Supersedes Old C-102 and C-103 Effective 1-1-65	
FILE S.G.S. ND OFFICE OPERATOR		<ul> <li>5a. Indicate Type of Lease</li> <li>State</li> <li>5. State Oil &amp; Gas Lease</li> </ul>	Foe XX
SUNDRY NOTICES AND REPORTS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUSE "APPLICATION FOR PERMIT -" (FORM C-101) FOR	ON WELLS ug back to a different reservoir. such proposals.)		
OIL GAS WELL OTHER- Water Inject		7. Unit Agreement Name Maljamar (Gray) 8. Farm or Lease Name	ourg)
Chevron Oil Company Address of Operator		Maljamar Unit 9. Well No.	
P. O. Box 1660, Midland, Texas 7970% Location of Well UNIT LETTER <u>H</u> 1800 FEET FROM THE NOTE	h LINE AND 660 FEET FROM	40 10. Field and Pool, or Wi Haljamar (Grayburg-San A	Idçat Indres)
THE East LINE, SECTION 9 TOWNSHIP 17			
6. CR-4115	, 	12. County Lea	<u>IIIII</u>
6. Check Appropriate Box To Indicate NOTICE OF INTENTION TO:	· · · ·	er Data REPORT OF:	2 +1 +3 
PERFORM REMEDIAL WORK PLUG AND ABANDON PLUG AND ABANDON CHANGE PLANS CHANGE PLANS	COMMENCE DRILLING OPNS.	ALTERING CASII Plug and Abani	
OTHER	OTHER		
Describe Proposed or Completed Operations (Clearly state all pertinent work) SEE RULE 1 f03.	details, and give pertinent dates, including	estimated date of starting o	any proposed
9-2-75 Dug pit and cellar. Moved in and			
9-3-75 Ran in hole with tubing to 3800', Pumped 25 sacks cement. Pulled t 3478'. Pulled tubing to 2400',	displaced hole with 9.5 p ubing and waited on cement	pg mud laden flu . Tagged plug a	ild. t
9-4-75 Spotted <u>30 sacks cement</u> . Pulled Pulled out of hole with tubing. circulation. Pumped 80 sacks cem via 8 5/8" x 4 1/2" annulus leave	Perforated 4 1/2" casing 3 ent down 4 1/2" casing cir	55', establish	ace
9-12-75 Installed 4' marker, backfilled p	it and cellar. Cleaned up	location.	e de la companya de l La companya de la comp
		•	ас 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1
	<u> </u>		<u> </u>
B. I hereby certify that the information above is true and complete to the be	st of my knowledge and belief. Senior Drilling Engineer	DATE Sept. 23.	1975
John with Kunger	Central	DATE	
NOVED BY TITLE		FEB 2 .1	977

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Air of a start Activity       Image: Activity									
Dispring Dry Don       Dispring Dry Don <td< th=""><th>F 131</th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th><th></th></td<>	F 131			1					
AND OFFICE       Sector       Sector <td>NO. OF GOPIES RECEIN</td> <td></td> <td>-)</td> <td></td> <td></td> <td>$\sim$</td> <td>2</td> <td>Form C-105</td> <td></td>	NO. OF GOPIES RECEIN		-)			$\sim$	2	Form C-105	
ILLE       INTE	DISTRIBUTION						F	Revised 1-1-	65
Interder       Interder       Interder       Interder       Interder         Imperation       Interder       Interder       Interder       Interder       Interder         Imperation       Interder       Interder       Interder       Interder       Interder       Interder       Interder         Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Interder       Inte			NEW	MEXICO OIL COI	NSERVATION (	COMMISSION			
LAND OF FICE		V	ELL COMPL	ETION OR REC	OMPLETION	REPORT A		itate	Fee 📥
DFERATOR       Image: State of Completion       Image: State of Completion       Image: State of Completion         Image: State of Completion       State of Completion       State of Completion       State of Completion         Monif Edif Completion       State of Completion       State of Completion       State of Completion         Monif Edif Completion       State of Completion       State of Completion       State of Completion         SLO Average State State       State of Completion       State of Completion       State of Completion         Monif Edif Completion       State of Completion       State of Completion       State of Completion         Tree State State of Completion       State of Completion       State of Completion       State of Completion         Producting Intervention       State of Completion       State of Completion       State of Completion         Producting Intervention       State of Completion       State of Completion       State of Completion         State of Completion       State of Completion       State of Completion       State of Completion         Producting Intervention       State of Completion       State of Completion       State of Completion         State of Completion       State of Completion       State of Completion       State of Completion         State of Completion       State of Completion <td></td> <td></td> <td>:</td> <td></td> <td>700</td> <td>cu 11 40</td> <td>AM 223 3. 50</td> <td>ate Ott &amp; Go</td> <td>IS Lease No.</td>			:		700	cu 11 40	AM 223 3. 50	ate Ott & Go	IS Lease No.
VYPE OF YELL       Visit 2       Mill Server       Visit 2       Visit		[**] .	_					mm	mmm
b. Y WE OF COUPLETION       With B orthornow Couple of Barnes       B. Form of Lawse Name         ************************************									
b. TYPE OF COMPLETION       8. Fail of Losse Name         ****.L.X       Control       0. Status       A. G. TARLOR etc. al.         ****.L.X       A. G. TARLOR etc. al.       S. Wall No.         ****.L.X       S.D. Averance S Barylacr, Status       S. Wall No.         ****.L.X       S.D. Averance S Barylacr, Status       S. Tarlor etc.         ****.L.X       S.D. Averance S Barylacr, Status       S. Tarlor etc.         ****.L.X       S.D. Averance S Barylacr, Status       S. Tarlor etc.         *****.L.X       S.D. Averance S Barylacr, Status       S. Torlor etc.         ************************************	A. TYPE OF WELL							nit Agreemer	nt Name
b. TYPE OF COMPLETION       R. G. TAURON A. TAURON A. G.		OIL	GAS						
Nome Excision of Company of Parses       3         A Bitrich of Company of Devron Oll Company       10. Field of Devron Oll Company         A Main State of Operator       10. Field of Devron Oll Company         A Location of Well       10. Field of Devron Oll Company         A Location of Well       10. Field of Devron Oll Company         A Location of Well       10. Field of Devron Oll Company         A Location of Well       11. Canas         Pt. Date Spudded       11. Date T.D. Reached 17. Date Compl. (Redy to Proct)       11. Elevations (DF, RKR, RT, CH, etc.)         Pt. Date Spudded       12. Date T.D. Reached 17. Date Compl. (Redy to Proct)       11. Elevations (DF, RKR, RT, CH, etc.)       12. Elevation (DF, RKR, RT, CH, etc.)         Pt. Date Spudded       11. Date T.D. Reached 17. Date Compl. (Redy to Proct)       11. Elevation (DF, RKR, RT, CH, etc.)       12. Elevation (DF, RKR, RT, CH, etc.)       12. Elevation (DF, RKR, RT, CH, etc.)         Producting Interval(s), of this completion - Top, Botton, None       12. Distance       11. Date Y       11. Date Y         Sh2a-h130       Campberg-San Andres       12. Campberg-San Andres       12. None Y       12. Distance         D. Type Elevation and Other Loop Run       23. State H12. On the San Y       12. Campberg-San Andres       12. Campberg-San Andres         D. Type Elevation and Other Loop Run       23. State Y       21. Mellocate X		ETION			014ER		8. Fo	urm or Lease	Name
A Birlicion of Chevron Oll Company     D. Fight Fight Fight of Wildow       Address of Constront     D. State of Chevron Oll Company     D. Fight Fight Fight of Wildow       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Matters of Chevron of Wall     Description of Wall     Description of Wall       Number of Chevron of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall     Description of Wall       Number of Wall     Description of Wall Descri				DIFF. RESVR.	OTHER				lor et al
Address of Operators       10. Free we beauty of Wildows         I. Decision of Weil       Conversion 8 - Barghary, Texas       Conversion 8 - Barghary, Texas       Conversion 8 - Barghary, Texas         Interview of Character of Weil       Interview of Character of Weil       Interview of Character of Weil       Conversion 8 - Barghary, Texas       Conversion 8 - Barghary, Texas         Interview of Character of Chara								all No.	
Ship Average 8 - Bopdar, Terms       Grapharg-See Andres         1. Location of Wall       It count of Wall         Mr. Location of Wall       It count of Wall         Mr. Location of Wall       It count of Wall         Mr. Location of Wall       It count of Wall         St. Die Spudded       It count of Wall         St. Die Spudder       It count of Walle         St. Die S	A Division	R of Chevro	n Oil Comp						at an Wildows
Licotion of Well         Virter       Incore         Virter       Incore         Bit Control       Incore         Bi				· ·			1		
Net       East       Line       Twe.       17       32       Number of the stand of the s	4. Location of Well					·····			
Mast Line of stell       Twe.       TB       sec.       32       num       Num       Num         10. Date Spudded       16. Date T.O.       Feature       17.25.65       11.6.157       11.6.157       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       11.6.50       10.5.50       11.7       20.50       10.5.50       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5       10.5<								///////	
The Bast Line of stell       7 w. 178       Rec. 328       auras.       18. Elevations (DF, RAB, RT, CR, stell)       19. Elev. Constanded         T. Geods       1.0. Date T.D. Reached       17. Date Compl. (Ready to Prod.)       18. Elevations (DF, RAB, RT, CR, stell)       19. Elev. Constanded         T. Geods       1.1. Plus Bast T.D.       22. LiMultiple Compl., How       23. Linterela, Instituty Tools       10. Elevations (DF, RAB, RT, CR, stell)       19. Elev. Constanded         Store Spudied       10. of this completion - Top, Bolton, Name       23. Linterela, Instituty Tools       Delay 7       Res Directional Survey         Store Spudied       10. fibre completion - Top, Bolton, Name       27. West Res Directional Survey       Res Directional Survey         Store Spudied       11. for this completion - Top, Bolton, Name       27. West Res Directional Survey       Res Directional Survey         Store Spudied       11. for this completion - Top, Bolton, Name       27. West Res Directional Survey       Res Directional Survey         Store Spudied       11. for this completion - Top, Bolton, Name       27. West Res Directional Survey       Res Directional Survey         Store Spudied       11. for this completion - Top, Bolton, Name       27. West Res Directional Survey       27. West Res Directional Survey         Bit Conic Contraction Record (merval, size and namber)       11. for this completion Survey       23. Store Survey		LOCATED	1800 FEET ,		th LINE AND	660 ,	EET FROM		
B: Darie Sunded       14, Darie T.D. Reached       17, Date Compl. (Ready to Prod.)       18, Elevations (BP, M&S, AT, GR, etc.)       19, Elev. Constructions (DP, M&S, AT, GR, etc.)       10, Elev. Constructions (DP, M&S, AT, GR, etc.)       10, Elev. Constructions (DP, M&S, AT, GR, etc.)       11, Elev. Constructions (DP, M&S, AT, GR, etc.)       12, Was Weil Cored         31, Production       MER Concord (Interval, size And etc.)       CASING RECORD       30, TUBING RECORD       12, AG, SOG, SOG, SOG, SOG, SOG, SOG, SOG, SO			· · · · · · · · · · ·	·······		IIIIXIII		County	HHHHHY
B. Date Spudded       16. Date T.D. Reached       17. Date Compl. (Rearly to Prod.)       18. Elevations (Dr. RR, etc.)       19. Elev. Cashingheed         20. Totol Depth       21. Plue Back T.D.       22. If Mailtiple Compl., How       23. Internal, Rotary Tools       Cable Tools         20. Totol Depth       11. Date Compl., None       23. Internal, Rotary Tools       Date Tools       Date Tools         20. Totol Depth       11. Back       22. If Mailtiple Compl., How       23. Internal, Rotary Tools       Date Tools         20. Totol Depth       11. Back       22. If Mailtiple Compl., How       23. Internal, Rotary Tools       Date Tools         20. Totol Depth       11. Back       22. If Mailtiple Compl., How       23. Internal, Rotary Tools       Date Tools         30. Trype Electric and Other Logs Run       27. Wes Well Cored.       Tools Tools Tools       Date Tool Reaction I Strings set in well)         28.       CASING SIZE       Wellout La./FT.       DEPTH SET       Hous Size       Cement Tools         29. Vest Size       TOP       BOTTOM       SACKS CEMENT       SCREEN       Size       DEPTH SET         30.       TUBING RECORD       30.       TUBING RECORD       AndUNT AND KIND MATERIAL USED         31. Linker RECORD       30.       TUBING RECORD       So.       DEPTH SET       PACKER SET     <	THE BEST LINE OF				· ////////	11X/////			
20. Tarial Depth       21. Plug Beck T.D.       22. Ministriple Compl., How       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       20. Ministriple Compl., How       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       20. Tarial Depth       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       20. Tarial Depth       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       20. Tarial Depth       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       21. Ministriple Compl., How       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       21. Ministriple Compl., How       23. Intervals. Rotary Tools       Cable Tools         20. Tarial Depth       21. Ministriple Compl., How       23. Intervals. Rotary Tools       Cable Tools         21. Proceeding Interval, Stee Mont       22. Cable Core       20. Tarial Stee       20. Tarial Stee       20. Tarial Stee         22. LINER RECORD       30. TUBING RECORD       30. TUBING RECORD       Advant Pulled By       Advant Pulled By         31. Perforation Record (Interval, size and number)       22. ACID, ShOT, FRACTURE, CEMENT SQUEZE, ETC.       Advant And Kindo Material Lused         33. Perforation Record (Interval, size and number)       22. ACID, ShOT, FRACTURE, CEMENT SQUEZE, ETC.       Advant An				Compl. (Ready to 1	Prod.) 18. Ele		,	./ 19. Elev.	
None       Drilled By       Dotary       Kone         L. Producting Interval(s), of this completion - Top, Bottom, Name       25. Was Directional Survey Made       St. Was Directional Survey Made         3842-4130       Grayburg-San Andres       27. Was Well Cored.         D. Type Electric and Other Logs Run       27. Was Well Cored.         BE: Sonic/Gamma Env/Caliper, Laterolog, Microlaterolog, Cesent Bond Log       30.         28.       CASING RECORD (Report all strings set in well)       27. Was Well Cored.         28.       CASING RECORD (Report all strings set in well)       AMOUNT PULLED         38.       Sonic/Gamma Env/Caliper, Laterolog, Microlaterolog, Cesent Bond Log       30.         28.       CASING RECORD (Report all strings set in well)       AMOUNT PULLED         38.       Sonic Center Tisc record       AMOUNT PULLED         39.       11.6       4200       7-7/8"         30.       TUBING RECORD       Son       Son         31. Portoration Record (Interval, size and number)       22.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH INTERVAL       Son Count and Kino MATERIAL USED       3842-4130       500.0001be sand 1a. 3 stagges.         38.2-A130       Fraced V/25,000 gals state staf       50,00001be sand 1a. 3 stagges.       50.00001be sand 1a. 3 stagges.         96 of Test </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1. Producting Interval(s), of this completion - Top, Bottom, Name       25. Was Directional Survey         3042-4130       Grayburg-Ban Andres       27. Was Weil Cored         B. Type Electric and Other Lags Run       27. Was Weil Cored       27. Was Weil Cored         B.T. Scone/Comme Ray/Caliper, Laterolog, Biorolaterolog, Cament Bood Log       20         B.T. Scone/Comme Ray/Caliper, Laterolog, Biorolaterolog, Cament Bood Log       20         CASING RECORD (Report all strings set in well)       Amount Pulled         CASING SIZE       WEIGHT LB./FT.       DEPTH SET         0.5/8"       24       305"         4.       305"       11"         200       SER. to Batface       Bote         50       SER       Bote         512 E       TOP       BOTTOM         SIZE TOP       BOTTOM       SACKS CEMENT         SIZE       DEPTH SET       PACKER SET         Bote       22.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEFT 31 - 3/8" casting jate SPA2-A139       ASOO gale sandaol and a lo Die         3842-A139       Freeded 1/25,000 gale sandaol       Acid and the production         Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Weil Status (Prod. or Shat-in)         Site First Production       Prod		21. Plue		22. If Multip Many	le Compl., How	23. Interval Drilled	By i		
Bits       State       Index         Drype Electric and Other Logs Run       27. Wes Weil Cored         BLC Sonic/Gamma Bay/Caliper, Laterolog, Microlaterolog, Commt Boal Log       20.         28.       CASING RECORD (Report all strings set in well)         CASING SIZE       WEIGHT LB./FT.         28.       CASING RECORD (Report all strings set in well)         CASING SIZE       WEIGHT LB./FT.         29.       A         20.       SZE         20.       SZE         21.       DEPTH SET         22.       A SOS         23.       TUBING RECORD         31.2E       TOP         BOTTOM       SACKS CEMENT         SIZE       DEPTH HIT TERVAL         ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH HIT TERVAL       AMOUNT AND MATERIAL USED							> 20 417		
8-5/8"       24       305"       11"       200 star. to suffree       Inne         11.6       12.00       7-7/8"       550 star.       Inne       Inne         11.6       12.00       7-7/8"       550 star.       Inne       Inne         11.6       12.00       7-7/8"       30.       TUBING RECORD         11.8       Inne       1.00       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         11.9       Bote       2-3/8       30.68       1.000       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         11.9       Performan       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         12.0       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         12.0       Baba-h139       1500 gals standard a 100 kind       1.0 kind         13.0       12.000       gals2-h139       1500 gals star.       1.0 kind         14.0       Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Weil Status (Prod. or Shut-in)         15.0       Bara       Date Size       Date Size       1.0 kind       1.0 kind       1.0 kind <t< th=""><th></th><th>WEIGHT 1 B</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		WEIGHT 1 B							
43*       11.6       1200       7-7/8*       550 sma.         None       30.       TUBING RECORD       30.       TUBING RECORD         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         BODE       30.       TUBING RECORD       30.       TUBING RECORD         31. Perforation Record (Interval, size and number)       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH INTERVAL       AMOUNT AND KINO MATERIAL USED         3842-5130       500 gale analogo acid a 10 Bit         3842-5130       Fraced W/25,000 gale vite acid         3842-5130       Fraced With Status (Prod. or Shut-in)         Test Production       Production Method (Flowing, gas lift, pumping									-
None       30.       TUBING RECORD         SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         Rome       2-3/8       3968         31. Perforation Record (Interval, size and number)       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED       3842-3130       4500 gale sandool acid & 10 BC         3842-3130       4500 gale sandool acid & 10 BC       3842-3130       Freeded W/25,000 gale str acid         3842-3130       PRODUCTION       PRODUCTION       So,0000 be sand in 3 stages.         Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Date of Test       Hours Tested       Choke Size       PROFIL       Oil - Bbl.       Gas - MCF       Water - Bbl.       Gas - Oil Ratio         30.       Test Period       38-3       Suber - Bbl.       Oil Gravity - API(Corr.)       37.4         A. Disposition of Gas (Sold, used for Juct, venied, etc.)       8       Suber - Bbl.       Suber - Bbl.       37.4         A. List of Attachments       Suber - Bbl.       Gas - MCF       Water - Bbl.       37.4         A. List of Attachments       Suber - Bbl.       Gas - MCF									
SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         BORE       2-3/8       3968       3968       3968       3968       3968         SIL Perforation Record (Interval, size and number)       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         Born 31 - 3/8" casing jate 3082-1139       3842-1139       500 gals sandaol acid A 10 RC       DEPTH INTERVAL         Bala - 139       500,0001be sand in 3 stages.       50,0001be sand in 3 stages.       50,0001be sand in 3 stages.         Interval       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Production       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       65       Production Acid a 10 RC       Base         Production       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       Base       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       Base       Base       Base       Base       Base         Clow Tubing Press.       Casing Pressure       Casing Pressure       Casing Press									
SIZE       TOP       BOTTOM       SACKS CEMENT       SCREEN       SIZE       DEPTH SET       PACKER SET         BORE       2-3/8       3968       3968       3968       3968       3968         SIL Perforation Record (Interval, size and number)       32.       ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         Born 31 - 3/8" casing jate 3082-1139       3842-1139       500 gals sandaol acid A 10 RC       DEPTH INTERVAL         Bala - 139       500,0001be sand in 3 stages.       50,0001be sand in 3 stages.       50,0001be sand in 3 stages.         Interval       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Production       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       65       Production Acid a 10 RC       Base         Production       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       Base       Production Method (Flowing, gus lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base       Base       Base       Base       Base       Base         Clow Tubing Press.       Casing Pressure       Casing Pressure       Casing Press		,	l_					·	
None       2-3/8       3068         31. Perforation Record (Interval, size and number)       32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         3842-3139       4500 gals sandsol said 10 b?         3842-3139       4500 gals sandsol said 10 b?         3842-3139       50,0000be sand in 3 stages.         PRODUCTION       PRODUCTION         Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Weil Status (Prod. or Shut-in)         Proving Press.       Hours Tested       Choke Size       Profits. For         Proto Tubing Press.       Casing Pressure       Calculated 24 - OII - Bbl.       Gas - MCF         Noticer - Bbl.       OII - Bbl.       Gas - MCF       Water - Bbl.       OII Gravity - API (Corr.)         Boxe       Sol, Sold, used for fuel, vented, etc.)       Sold Sold, used for fuel, vented, etc.)       Test Witnessed By         Sold to Phillips Petroleum Company       . List of Attachments       Test of this form is true and complete to the best of my knowledge and belief.         ORIGINAL / SIGNED       ORIGINAL / SIGNED       ORIGINAL / SIGNED				······					
31. Perforation Record (Interval, size and number)       32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.         DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         3642-4139       4500 gals sandsol acid 1 0 pc         3842-4139       50,0000lbe sand 1a 3 stages.         PRODUCTION         PRODUCTION         Det of Test         Hours Tested         Choke Size         Production         Base         Calculated 24- OII - Bbl.         Calculated 24- OII - Bbl.         Calculated 24- OII - Bbl.         Calculated 24- OII - Bbl.         OII Gas - MCF         Water - Bbl.         OII Gravity - API (Corr.)         Sold to Phillipe Petroleus Company         List of Attachments         Sold to Phillipe Petroleus Company         List of Attachments         Sold to Phillipe Petroleus Company         List of Attachments         OIR cortify that the information shown on		TOP	BOTTOM	SACKS CEMENT	SCREEN				PACKER SET
Porf 31 - 3/8" casing jets 3042-4139       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         3842-4139       4500 gals candeol ecid a 10 K         3842-4139       4500 gals candeol ecid a 10 K         3842-4139       50,0001be cand in 3 stages.         3842-4139       900001be cand in 3 stages.         Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         B-6-65       Date Test Period         B-7-65       Calculated 24- How Rate         Come Tubing Press.       Casing Pressure         Calculated 24- How Rate       S1-3         Phillips Pstroleus Company       Oil - Bbl.         Come Rate       S1-3         Constantion       S1-3         Constantis       S1-3		<u> </u>				2-5/0			
Porf 31 - 3/8" casing jets 3042-4139       DEPTH INTERVAL       AMOUNT AND KIND MATERIAL USED         3842-4139       4500 gals candeol ecid a 10 K         3842-4139       4500 gals candeol ecid a 10 K         3842-4139       50,0001be cand in 3 stages.         3842-4139       900001be cand in 3 stages.         Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         B-6-65       Date Test Period         B-7-65       Calculated 24- How Rate         Come Tubing Press.       Casing Pressure         Calculated 24- How Rate       S1-3         Phillips Pstroleus Company       Oil - Bbl.         Come Rate       S1-3         Constantion       S1-3         Constantis       S1-3	31. Perforation Record	(Interval, size and	number)	<u>ا</u>	32. AC	ID, SHOT. FR	ACTURE, CEMEI	NT SQUEEZ	E, ETC.
3812-139       Fraced W/25,000 gals vir eval         PRODUCTION         Oute First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65         The of Test       Hours Tested       Choke Size         Production         Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         Production		-	<i>•</i>			T			
3812-1139       Fraced W/25,000 gals vir strift         PRODUCTION         PRODUCTION         Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         Production Method (Flowing, gas lift, pumping - Size and type pump)         Well Status (Prod. or Shut-in)         Production         A for Test         Hours Tested         Choke Size         Production         Production         Production         Production         Bold         Strength         Out Tubing Press.         Casing Pressure         Calculated 24- Hour Rate         Production of Gas (Sold, used for fuel, vented, etc.)         Test Witnessed By         Test Witnessed By         Test Witnessed By         Sold to Phillipe Petroleum Complete         Sold to Philipe Petroleum Complete         <	Porf 31 -	3/8" casin	g jota 3844	2-4139	3842-417	9 1	500 gals	losber	acid & 10 BC
PRODUCTION         PRODUCTION         Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         Base 65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Production Method (Flowing, gas lift, pumping - Size and type pump)         Base 65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Production Method (Flowing, gas lift, pumping - Size and type pump)         Base figure	•	-			3842-413	91	raced W/29	.000 m	ls vir and be
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Date First Production       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Well Status (Prod. or Shut-in)         B.6.65       Production Method (Flowing, gas lift, pumping - Size and type pump)       Production         B.7.65       Case       Oli - Bbl.       Gas - MCF       Water - Bbl.       Gas - Oli Ratio         Converting Press.       Casing Pressure       Calculated 24- Oli - Bbl.       Gas - MCF       Water - Bbl.       Oli Gravity - API (Corr.)         B.0       Gas (Sold, used for fuel, vented, etc.)       Production of Gas (Sold, used for fuel, vented, etc.)       Test Witneased By         B.1       Comparison       Comparison       Comparison       Comparison         B.1       Comparison       Comparison       Comparison       Compari		n							
B.6.65       Drep inc.         ite of Test       Howrs Tested       Choke Size       Prod in. For Test Period       Oil - Bbl.       Gas - MCF       Water - Bbl.       Gas - Oil Ratio         B.7.65       Casing Pressure       Calculated 24- Hour Rate       Oil - Bbl.       Gas - MCF       Water - Bbl.       Oil Gravity - API (Corr.)         Construction of Gas (Sold, used for fuel, vented, etc.)       28       51.3       22       1832         A. Disposition of Gas (Sold, used for fuel, vented, etc.)       28       51.3       22       37.4         B. 1. 2       Disposition of Gas (Sold, used for fuel, vented, etc.)       Test Witnessed By       37.4         B. 1. 3       Construction of both sides of this form is true and complete to the best of my knowledge and belief.       ORIGINAL / SIGNED	·····		tion Method (Flor			(pe pump)	Well	Status (Pro	d. or Shut-in)
Ite of Test       Hours Tested       Choke Size       Prodin. For Test Period       Oil – Bbl.       Gas – MCF       Water – Bbl.       Gas – Oil Hatio         B. 7.65	Date First Broductio-	1 Droduc	the matrice is the		,	- •			
Barros       Casing Pressure       Calculated 24- Hour Rate       Oil - Bbl, Borros       Gas - MCF       Water - Bbl, Water - Bbl,       Oil Gravity - API (Corr.)         Bond       Construction of Gas (Sold, used for fuel, vented, etc.)       Sold to Phillips Petroleum Company       Disposition of Gas (Sold, used for fuel, vented, etc.)       Test Witnessed By         Bold       to Phillips Petroleum Company       Company       Disposition of Gas (Sold, used for fuel, vented, etc.)       Test Witnessed By         Bold       to Phillips Petroleum Company       Oil Gravity - API (Corr.)       Test Witnessed By         6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.       ORIGINAL / SIGNED	Date First Production	Produc			Oli - Bbl.	Gas - MCF	Water - Bb		- Oll Figtio
Flow Tubing Press. Casing Pressure Calculated 24- 011 Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.) 37-4 37-4 37-4 37-4 37-4 37-4 6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. ORIGINAL / SIGNED	8-6-65		Choke Size						1
Bone       28       51-3       22       37-4         A. Disposition of Gas (Sold, used for juel, vented, etc.)       Test Witnessed By       Test Witnessed By         Bold to Phillips Petroleum Company       .       List of Attachments         Log       .       .       .         6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.       .         ORIGINAL / SIGNED       .       .	8-6-65				28	6.2	20		1879
A. Disposition of Gas (Sold, used for fuel, vented, etc.) Bold to Phillips Petroleum Company . List of Attachments 6. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. ORIGINAL / SIGNED	8-6-65 Ite of Test 8-7-65	Howrs Tested	Calculated 24	Test Period	28	<b>51.3</b>	er – Bbl.	Oil Gravi	1832
List of Attachments 16. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. ORIGINAL / SIGNED	<b>8-6-65</b> ne of Test <b>8-7-65</b>	Hours Tested	Calculated 24	- Oil - Bbl.	Gas – MCF	<b>51.3</b>	22		1832
16. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief. ORIGINAL / SIGNED	8-6-65 rte of Test 8-7-65 Flow Tubing Press.	Hours Tested	Calculated 24 Hour Rate	- Oil - Bbl.	Gas – MCF	51.3 3	22		1832
ORIGINAL / SIGNED	B-6-65 rte of Test B-7-65 Elow Tubing Press. Former A, Disposition of Gas ( Bold to P	Hours Tested Casing Pressure (Sold, used for fuel	Calculated 24 Hour Rate	- Oil - Bbl.	Gas – MCF	51.3. 3	22		1832
ORIGINAL / SIGNED	tte of Test <b>8-7-65</b> Flow Tubing Press. <b>Bone</b> A, Disposition of Gas (	Hours Tested Casing Pressure (Sold, used for fuel	Calculated 24 Hour Rate	- Oil - Bbl.	Gas – MCF	51. <u>3</u> 3	22		1832
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	te of Test <b>8-7-65</b> Flow Tubing Press. <b>Bond</b> <b>Bold to P</b> List of Attachments	Hours Tested Casing Pressure (Sold, used for fuel the information sh	Calculated 24 Hour Rate	Test Period - Oil Bbl, - 28	Gas - MCF	3	Ze Test Witne	ased By	1832
SIGNED TITLE TITLE TOT IN TITLETOT IN TI	B-5-65 Ite of Test B-7-65 Tow Tubing Press. I. Disposition of Gas ( Bold to H List of Attachments 6. I hereby certify that	Hours Tested Casing Pressure (Sold, used for fuel the information sh ORIGINAL	Calculated 24 Hour Rate	Test Period Oil Bbl, 38 38 39 5 of this form is true	Gas - MCF 51.	3 b the best of m	Y knowledge and	belief	1832

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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#### Southeastern New Mexico Northwestern New Mexico the transformed T. Canyon _ _ T. Ojo Alamo_ T. Penn. "B" Т. Anhy_ Balt _____ T. Penn. "C" т. T. Strawn_ T. Kirtland-Fruitland _ T. Pictured Cliffs ____ T. Penn. "D'". Salt_ T. Atoka Yates____ _ T. Cliff House ____ T. Leadville. Т. Т. Miss Т. 7 Rivers. T, Devonian ___ T. Menefee_ Т. Madison. ____ T. Point Lookout __ Elbert Queen. _ T. Silurian Τ. Т. 3703 ____ T. _____T. Mancos Grayburg_ _ T. Montova. McCracken . 2002 T. Simpson Т. San Andres. _____ T. Gallup ___ T. Ignacio Qtzte. _____ Base Greenhorn . ÷. _____ T. McKee__ T. Glorieta. T. Granite_ ċ _ T. Ellenburger_ T. Dakota . T. T. Paddock Т. Blinebry_ _ T. Gr. Wash_ Morrison. Т. ____ T. Granite_ _____ T. Todilto_ Τ. Tubb_ T. . . _ T. Delaware Sand _____ T. Entrada . Drinkard. T. т. т. T. Bone Springs _____ T. Wingste _____ Т. Abo. . . . T. Wolfcamp. _ Т. T. Chinle_ Т. - T. _ T. _____T. Permian. т. Penn. _____ T. Penn. "A" Y T. T Cisco (Bough C). Т.

#### FORMATION RECORD (Attach additional sheets if necessary)

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	DISTRIBUTION	NEW MEXICO OIL	CONSERVATION COMMISS	Form C-104
	SANTA FE		T FOR ALLOWABLE	Supersedes Old C-106 and C Ellective 191-65
	U.S.C.S.	AUTHORIZATION TO TH	AND RANSPORT OIL AND NATURAL	- 11 A
	LAND OFFICE	-	11ar ? 0 35 A	
·	TRANSPORTER GAS	-		
_	OPERATOR PRORATION OFFICE	-	1. 1. 1.	·* •
1.	Operator Standard Oil Comp	any of Texas		
	A Division of Che	vron Oil Company	<u>0-2</u>	
	Snyder, Texas 795	49	1. C.	6-21
	Reason(s) for filing (Check proper bo	x)	Other (Please explain)	
	New Woll Recompletion	Change in Transporter of: Oti Dry C		name and well number du
	Change in Ownership		ensate A. C. Taylor	*B* #2
	If change of ownership give name and address of previous owner			
п.	DESCRIPTION OF WELL AND	LEASE		
	Lease Name	Well No. Pool Name, Including		
	Maljamar (Grayburg) Uni	it. 133 Maljamar (Gray	yburg-San Andres)State, Fede	ral or Fee Fee
	Unit Letter A ; <u>67</u> 0	Feel From The North Li	ine and 770 Feet From	n The East
I	Line of Section 9 To	wnship 175 Range	32E , NMPM,	Lea Count
ш.	DESIGNATION OF TRANSPOR Name of Authorized Transporter of OL	TER OF OIL AND NATURAL G	AS	roved copy of this form is to be sent)
	Texas New Mexico Pipeli		P.O. Box 1510, Midland	
	Nome of Authorized Transporter of Ca		· · · · · · · · · · · · · · · · · · ·	roved copy of this form is to be sent)
ļ	Phillips Petroleum Comp	Unit Sec. Twp. Pgs.	P.O. Box 6666, Odessa,	, lexas
	If well produces oil ar liquids, give location of tanks.	J 9 17S 32E	Yes	
1	f this production is commingled wi	ith that from any other lease or pool,	give commingling order numbers (	CTB-166
<b>۱۷</b> . (	COMPLETION DATA	Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v. Dill. Rei
	Designate Type of Completion			
	Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
ŀ	Elevations (DF, RKB, RT, GR, eic.;	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
ł	Perforations	<u>.</u>	_ <u></u>	Depth Casing Shoe
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	rest data and request fo Dil Well.	OR ALLOWABLE (Test must be a able for this de	fter recovery of total volume of load of oth or be for full 24 hours)	l and muss be equal to or exceed top a:
	Date First New Oil Run To Tankis	Date of Test	Producing Method (Flow, pump, sas 1	ift, etc.)
Ļ	Length of Test	7	Caulta Barretta	Choke Size
	Condin of fest	Tubing Pressure	Casing Pressule	CHOKE SITE
	Actual Prod. During Tool	Oil-Bhia.	Water- 3ble.	Gas-MCF
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_	DAS WELL			
$\int$	Actual Prod. Tost-MCF/D	Length of Test	Bble, Condensate/NMCF	Gravity of Condensate
F	Tealing Method (picol, back pr.)	Tubing Pressure ( Shut-in )	Casing Pressure (Shut-12)	Choke Size
 vi. c	ERTIFICATE OF COMPLIANC	E	OIL CONSERVA	ATION COMMISSION
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		egulations of the Oil Conservation lth and that the information given	APPROVEDM	<u>AV 4 1957</u>
	pove is true and complete to the		67	
	enment.	>	TITLE	
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E	. W. McCants (Signa	(we)	well, this form must be accompa	wable for a newly drilled or deepe inled by a tabulation of the deviat
D	istrict Engineer		tests taken on the woll in acco All soctions of this form an	set be filled out completely for all
	(Tul	e)	able on new and recompleted w	olla.
A)	pril <u>28, 1967</u> (Day	•)	well name or number, or transpor	I. III, and VI for changes of own ter, or other such change of condit
			Separate Forms C-104 mus completed wells.	at be filed for each pool in mult.
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later than	twenty di	ays after comp	pletion of well. Follow	w instructions in R	tules and Reg	ulations		╾┼╼┼╾┼╴
of the Co	nimission.	Submit in QU	UINTUPLICATE	If State Land	submit 6 C	spies [_]		
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ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

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I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

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	Naljanar, New Maxico October 12, 1964
Company or Operator Loons rd Nichols	Address P.O. Box 123, Nal jamar, N.M. 88264
Company or Operator	Position or Title

Attachment "D"

Plugging Procedure Steve Carter & Son Maljamar Brine

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# Attachment "D" Steve Carter & Son Maljamar Brine Plugging Procedure

I.

OPERA	ATOR: <u>Steve Carter &amp; Son</u>				
WELL:	Maljamar Brine	FIELO:	Brine We]	1	
COUNI	ry: <u>Lea</u>	_	STAT	re:	NM
LOCAT	TION: <u>835' FNL &amp; 630' FEL Sec 9, T-17-</u>	-S, R-32-E			
DATE	5/18/85ELEV. RKB:	GR: <u>4125</u>	<u>est</u> f	REV:	0_
* * * * * *	***************************************	* * * * * * * * * * * *	*****	****	****
1.	Move in and rig up plugging unit. Unlo	oad work s	tring and	tal	ly.
2.	Displace hole and cavity with brine. /	Mart-			
3.	Pull tubing out of hole and run in hole plug.			idge	
4.	Set bridge plug at bottom of casing (10	200').			
5.	Run in hole with tubing and set cement (150 Sacks),	plug from	1000' to	sur	face
6.	Rig down, clean location, move surface loading station, etc.) off location and contour.				
			G-		

Attachment "E" Plugging Bond

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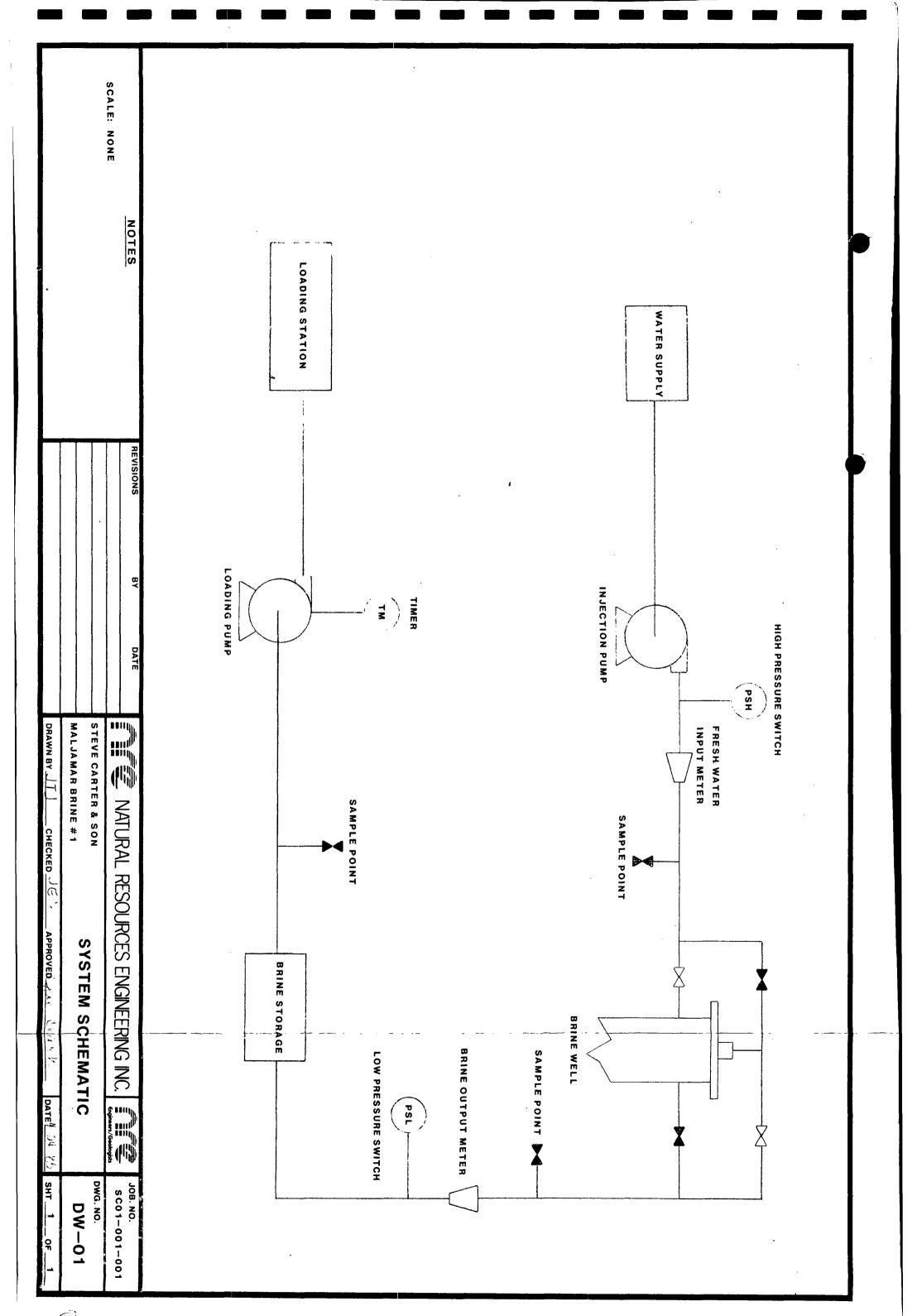
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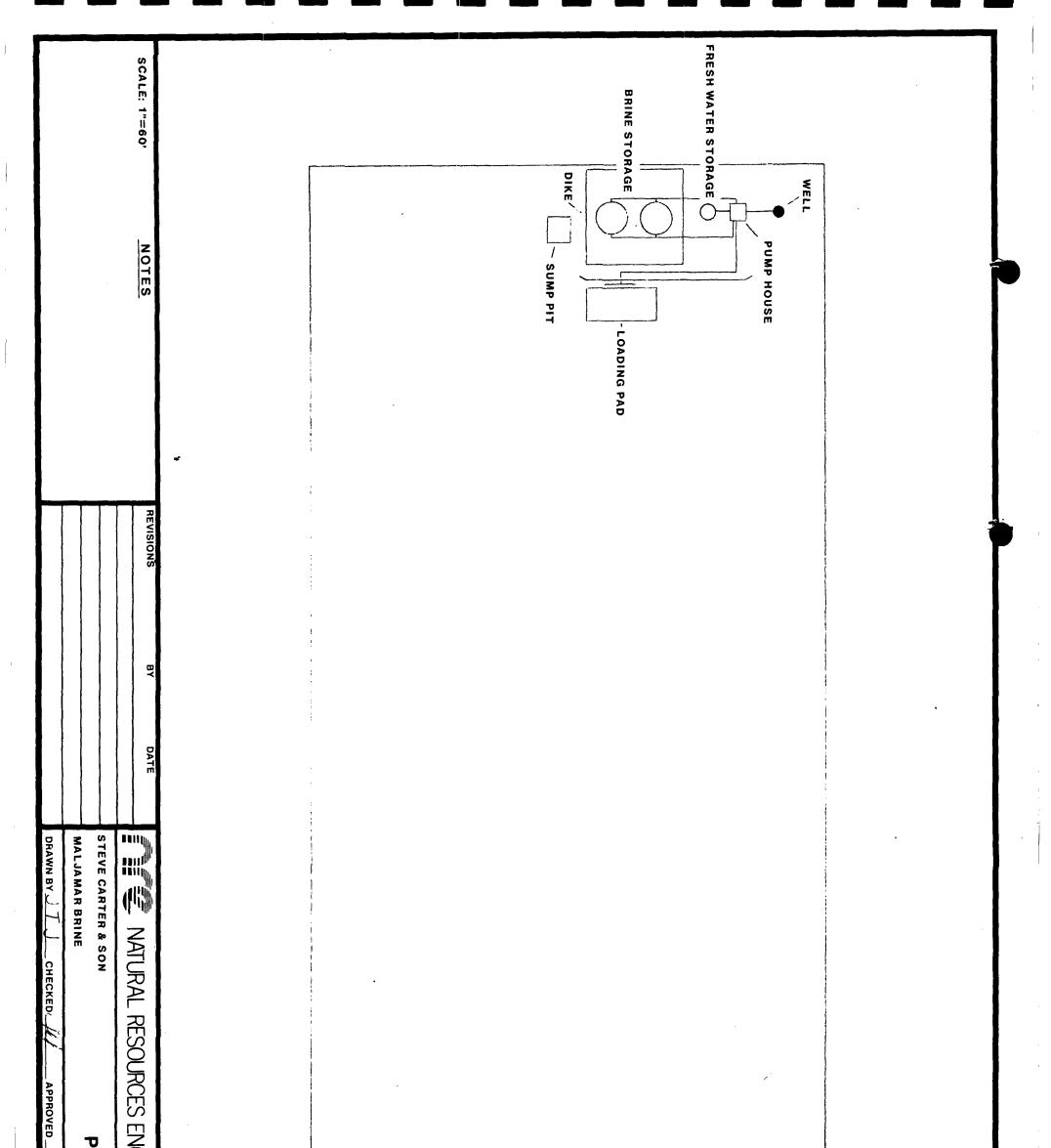
Steve Carter and Son is in the process of obtaining an approved plugging Bond for the proposed Maljamar brine well. Upon receipt of an approved bond a copy will be sent to the Environmental Improvement Division for inclusion in this discharge plan. Drawings Steve Carter and Son Maljamar Brine

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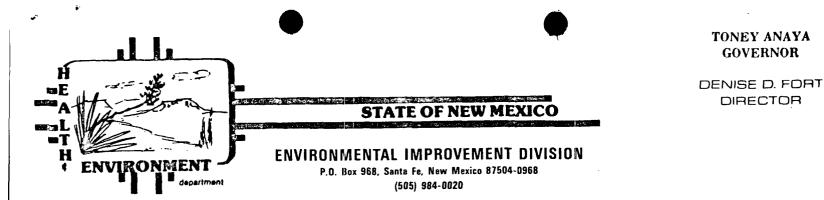


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DATE TUKE		IGINEERING INC.	STATE HIGHWAY #33
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Maljaman Rolf Roffier Someone is drilling Brine Well of AND *Steve Center + Sons 392-3571 500 N. DEMONT EBRIO HERE. Women called concerned it usas maa her proporty



July 1, 1985

Steve Carter and Sons PO Box 803 Hobbs, NM 88241

Dear Sirs:

I understand that your company is considering setting up a brine station in Maljamar. Please be advised that prior to operating such a facility, you must prepare and obtain approval for a discharge plan from the New Mexico Environmental Improvement Division (EID). A discharge plan is a description of how you will construct and operate your facility in such a way that ground water quality will not be threatened. An approved discharge plan is equivalent to a permit.

The EID permit review procedure is summarized in the Discharge Plan Outline and associated materials accompanying this letter. Discharge plan applications are reviewed by staff geologists and hydrologists, and are evaluated on a case-by-case basis: that is, you are required to demonstrate that your operation will not cause an exceedance of ground water quality standards (see Section 3-103 of the enclosed Water Quality Control Commission regulations), but you are not required to meet specific engineering requirements (i.e., "double-line with 30-mil Hypalon all surface impoundments containing brine").

I hope that this information is useful to you. Please contact me at the above address and telephone number, extension 206, if you need any further information.

Sincerely, in Frank Morgan

Paige Grant Morgan Water Resource Specialist

PGM:pgm

encls: Part V DP outline WQCC regs cc: Roelf Ruffner, EID Hobbs John Guinn, EID District IV Manager

file: this wells gen'd

#### INFORMATION SHEET TO ACCOMPANY IN SITU EXTRACTION WELL OUTLINE

The purpose of a discharge plan is to provide the technical staff of the regulating agency (in this case, EID) with sufficient information about your operation to demonstrate that your activities will not degrade the quality of ground water that contains less than 10,000 mg/l of total dissolved solids (TDS).

Please note that the word "discharge" covers inadvertent as well as intentional discharge - i.e., leaks and spills. It is necessary in your discharge plan to anticipate where any leaks or spills might occur, to indicate how you will guard against such accidents, and to develop a monitoring system to warn you when they have occurred.

In the event of a leak, spill, casing rupture, or any type of accidental discharge of a water contaminant (as defined in Section 1-101.BBB of the Water Quality Control Commission (WQCC) Regulations) you are required to notify the Ground Water and Hazardous Waste Bureau of EID and take whatever measures are necessary to avoid contamination of surface water or ground water with TDS less than 10,000 mg/l. Similarly, if you plan any significant change in your operation once your discharge plan is approved, you are required to notify this agency, and have the modification approved prior to its implementation.

The following outline condenses the requirements stated in the WQCC Regulations for operations like yours, and sets up a logical sequence in which to present the information required in your discharge plan. Using this format is optional. The final reference for what must be contained in your discharge plan is the WQCC Regulations. The codes in bold type in the outline refer to Sections of the WQCC regulations, for your convenience.

As an in situ extraction well operator, you may either submit a complete discharge plan and have it approved <u>prior to drilling</u> or constructing an in situ extraction well; or you may submit only those portions of this outline that are underlined, by way of "Notification" to the Director of EID at least 90 days prior to beginning construction that you plan to begin construction of an in situ extraction well or well field. You must subsequently receive approval of a complete discharge plan for your facility prior to going into operation, if you take this alternative approach. The advantage of the alternative approach is that it <u>may</u> allow you to start up operations more quickly than if you wait for complete discharge plan approval. The disadvantage is that if you have constructed the well or wells in a fashion that is not approvable by EID, you may never receive permission to operate those wells. For this reason, if you plan to use the alternative approach, it is important to consider carefully the comments of EID technical staff on the material you submit with your Notification.

The attached flow charts summarize the two approaches to obtaining approval for an in situ extraction operation in New Mexico.

### SUGGESTED OUTLINE FOR DISCHARGE PLAN SUBMITTAL:

## In Situ Extraction Facilities

#### I. GENERAL DESCRIPTION

- A. Name of facility and name and address of responsible party
- B. Location: county, township, range and  $\frac{1}{44}$  Section or latitude/longitude coordinates (3-106.C.2) -indicate on USGS topo map, 7½' or 15' quad
- C. Schematic or plot plan of facility -include short verbal description of process, including transportation elements (e.g., loading trucks), and -quantity, quality, and flow characteristics of the discharge (3-101.C.1)
- D. Operational history of injection and production at facility (5-203.C.4) -include dates of well construction and beginning of injection

#### II. DESCRIPTION OF FACILITY

- A. Surface Facilities
  - Dimension of storage and/or disposal pond(s)/tank(s)
     -include side slope angle for pond(s)
  - Length and type of pipe(s) carrying fluids to/from well(s) to/from pond(s)/tank(s)
  - 3. Average daily discharge to and, if applicable, withdrawal from pond(s)/tank(s) (3-106.C.1)
  - 4. Type of pond liner, if any -include manufacturer's specs, technique used to seal seams
- B. Underground Facilities
  - 1. Depth, diameter, production and protection casing and tubing specs of well(s) -include schematic drawings (5-102.B.1.d.8.; 5-210.B.13; 5-205.A.3.d.)
  - 2. Construction procedures, including cementing and casing program, logging procedures, deviation checks and a drilling, testing and coring program (5-102.B.1.d.9.; 5-210.B.14; 5-204.B.2.b; 5-205.A.3.d,e). Include logs and results of tests for all new and worked-over wells (5-205.A.4).

- 3. <u>Stimulation program</u> (5-102.B.1.d.6.; 5-210.B.11). Note: 5-206 limitations.
- <u>4.</u> <u>Maximum and average injection pressures, injection volume, and other injection procedures</u> (5-102.B.1.d.7.; 5-210.B.12; 5-203.B.1; 5-205.A.3.b,f).
- 5. Notification prior to drilling, casing etc. (5-205.A.5).
- 6. The proposed formation testing program to obtain an analysis or description, whichever the Director requires, of the chemical, physical and radiological characteristics of, and other information on, the receiving formation (5-102.B.1.d.5)

#### III. SITE CHARACTERISTICS

- A. Soils (This section need only be submitted if unlined surface impoundments are proposed or in use. Additional ground water monitoring may be required for facilities using unlined surface impoundments. If impoundments do not adequately protect ground water, they will not be approved for use.)
  - 1. Texture class
  - 2. Soil Conservation Service (SCS) assessment of capability/limitations
  - 3. Percolation test
- B. Geology (5-203.C.3)
  - <u>Stratigraphic section (drilling log) of well(s) on the site,</u> <u>indicating depth, thickness and chemical characteristics of water-</u> <u>bearing strata 3-106.C.3,6; 5-205.A.3.j</u>). Also give the lithology, stratigraphy, and fracture pressure of the receiving formation and confining zones (5-205.A.3.i).
  - 2. Maps and cross-sections detailing the geology and geologic structures of the local area, including faults (known or suspected) (5-102.B.1.d.4.; 5-210.B.6 & 7). Are the faults known to be conduits or barriers to ground water flow?
  - 3. Depth to and lithologic description of rock at base of alluvium below the discharge site, if such information is available (3-106.C.6)

- C. Hydrology (5-203.C.3)
  - 1. Maps and cross-sections indicating the general vertical and lateral limits of all ground water having 10,000 mg/l or less TDS within one mile of the site, the position of such ground water within this area relative to the injection formation, and the direction of water movement, where known, in each zone of ground water which may be affected by the proposed injection operation (5-102.B.1.d.3.; 5-210.B.5).
  - 2. A map showing the injection well(s) which are to be constructed and the number, name, and location of all producing wells (water and other), injection wells, abandoned wells, dry holes, surface bodies of water, springs, mines, quarries, residences and roads, and any other pertinent surface features that are within the area of review of the well or well field (5-102.B.1.d.2.; 5-202.B.3; 5-210.B.2.) See 5-202 for definition of area of review.
  - 3. Flooding potential of the site (3-106.C.4).
  - 4. Depth to and quality of ground water most likely to be affected by spills/leaks (3-106.C.3). Analysis should include sodium (Na⁺), potassium (K⁺), calcium (Ca⁺⁺), magnesium (Mg⁺⁺), bicarbonate (HCO₃⁻), carbonate (CO₃⁼), chloride (Cl⁻), sulfate (SO₄⁼), nitrate (NO₃⁻) as nitrogen, and <u>TDS</u>. Other constituents may be required by EID on a case-by-case basis.
  - 5. Analysis or description of water used for injection (if different from III.C.4, above) (3-106.C.1; 5-203.C.1). Include density, corrosiveness and temperature (5-205.A.3.g), as well as above constituents (and such others as may be required by EID). Analyses are to be submitted at least quarterly (5-207.C.1), unless the source is such that a change in makeup is very unlikely (e.g. a city water system).
  - 6. Chemical analysis or description of discharge to the surface (if facility is presently in operation) (3-106.C.1). Analysis should include those constituents indicated in III.C.4 (and such others as may be required by EID). Once in operation, reports to be submitted quarterly (5-207.C.1).

#### IV. PROCEDURES TO PROTECT GROUND WATER QUALITY

- A. During Operation
  - Identify those abandoned wells/shafts or other conduits in the area of review which penetrate the injection zone and which, through being improperly sealed, completed or abandoned, provide a



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policy for eigenfilm of colominants. Secail what convectine option (e.g. plogging open boles) will be taken to prevent day wolecant of contininants into ground water of less than/agual so 10,000 mg/l TDS through such conduits due to the proposed injection activity (5-203.A, 3.1). Incl de op olytion and plugging records of such wells/shafts (5-203.C.5.).

- In the event that operations have logun to fore information cores to fight mounds growth a contributivity require plugging, injection pressure will be required to be listited to avoid contribut of contrainance through such a contribution protocood cound water (5-203.8.2).
- 3. Machanical integrity testing, such as:

a. pressors inst prior to shirt of cputelion (5-204.B.1.a).

b. scontoring of ennulus pressure (5-204.B.1.5; 5-201.C.)

- Means and locations for measuring inflow to and outflow from the pred(s)/tank(s). (Foreticus may be indicated on the plot plan required religion (2006).0.2, 5).
- 5. On proceeded to include the star injucted to block of flyid extracted to introduced and losses (3-307.A.1). Thy because by extracting transform pressure and either flow rate or volume every the lots, or by beleating and daily no briding of fluid r unit we (5:10/ 0.2).
- Location and design of site(s) and method(s) for compling for cuality of fresh water and discharge fluids at facility (3-106.0.5).
- 7. Usak detection system under pond(s): drains, lysimeters, other? (2.167.1.1,3.9).
- 3. Monitoring to detect any deterioration of ground water quality in wra; do you have access to water well(s) within 100 feet downyo dient from the facility and performed in the case less likely to the affected by discharges from your facility, in order to direct wall then the quality? If not, may and to put in the restict wells (3.107.A.2.9; S-205.C); and take pure lic quality reports (5.07.C.2.5.c). Also, identify wells in the carry for which the potential controlation from your trive of ration is may low, which can here to indicate "bestyre add hereis of the policy property in the area.
- Club will spillage/leckage be provided during trock to diagram at transfer points within the facility?

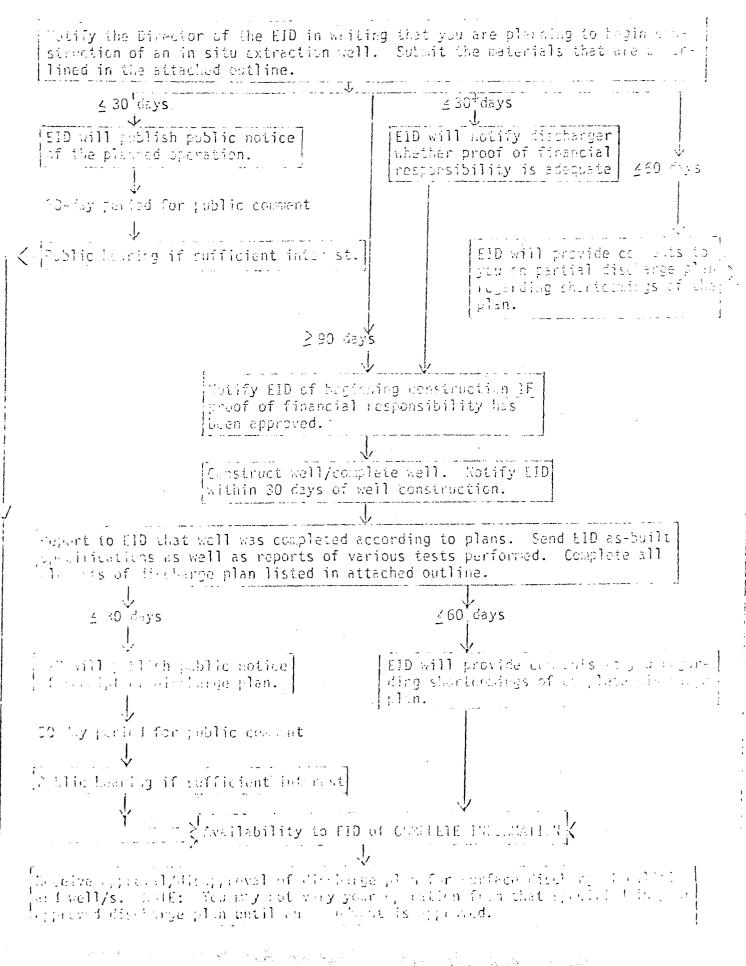
- 10. Conting may place (2-107.A.MC) in the clast of:
  - a. leak/spill from surface facilities;
  - b. loss of mechanical intrupity of "injustion/profection wall. How will ground water be protected from contatication or treated if contamination has occurred (1-203.3.2.)?
- If there is a lock, spill on other contributed discharge of a significant prount of water contributes on the surface or underground at your facility, will you could to potifying the DD Stornd Mater Section within 48 hours (1913) A.1., 5-203, B.1)?
- 3. Clathe Hational commit ents required ration to plan approval
  - 1. Alwaying and abanit and
    - a. Plug and cap wells. Procedure dust conform to that specified in 5-209, and be approved in affence.
    - 5. Downstrate financial chility (5:10.8.17) to:
      - plug (21) and analysis for the second second;
      - ii. resture projected scound later if contaminated by your
        contracting; and
      - iii. Inductive consumes necessary to prevent contamination of groundwater having 10,000 mg/l or less 10S, after constant of operations.
  - ?. ...d closure
    - a. Deceve lider, if any, from pit (3-107 A)
    - Bestore area to original contours on take other appropriate process to prevent post-operational contamination (3-107.4.11).

# Y. CONTRACTOR AND ADDRESS

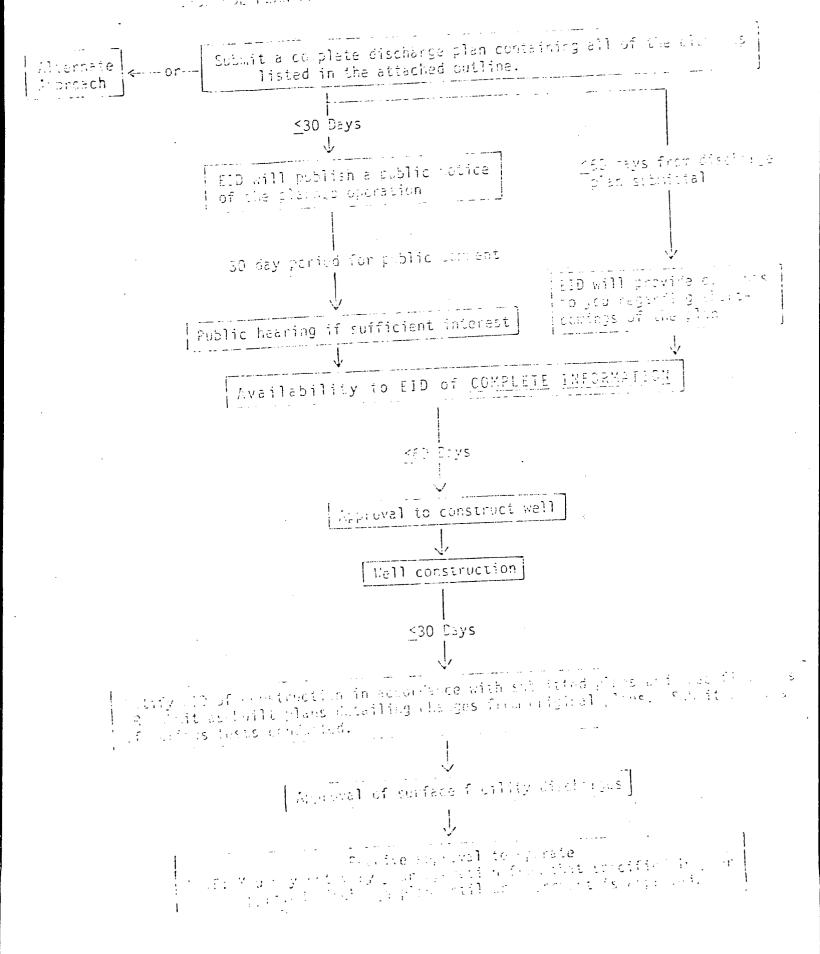
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AND SEPERATE PRODUCTS FOR IN SIDE AND THE STUDY





11-6-91 Carter \$ Son Majamar Oil around tanks. When me tank is open-ie. not storing anything

K. Brown



11-6-91 Carter & Son Majamar Oil all around tank on ground. Value in background appears to have been used recently.

KBrown



Carter & Sen - Majamar 11-6-91 TINNER OF THE Abandonal Site

Oil-residue in pit at back of abandoned facility.

itsoun



11-6-91

Carter & Son Mayamar Bar Bar 198

Oil spilled on ground around tank at abardoned (?) brine facility.

Brown