# BW - 035

# PERMIT APPLICATIONS, RENEWALS, & MODS (3 of 5)

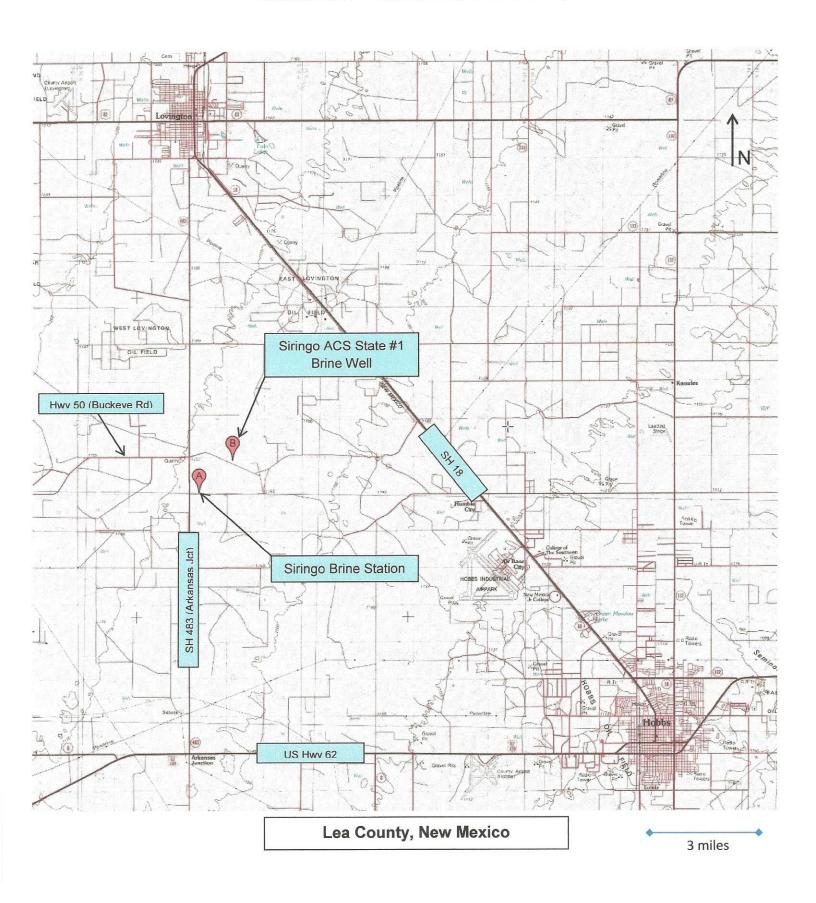
2016

# Llano Disposal, LLC Siringo ACS State #1 Discharge Plan

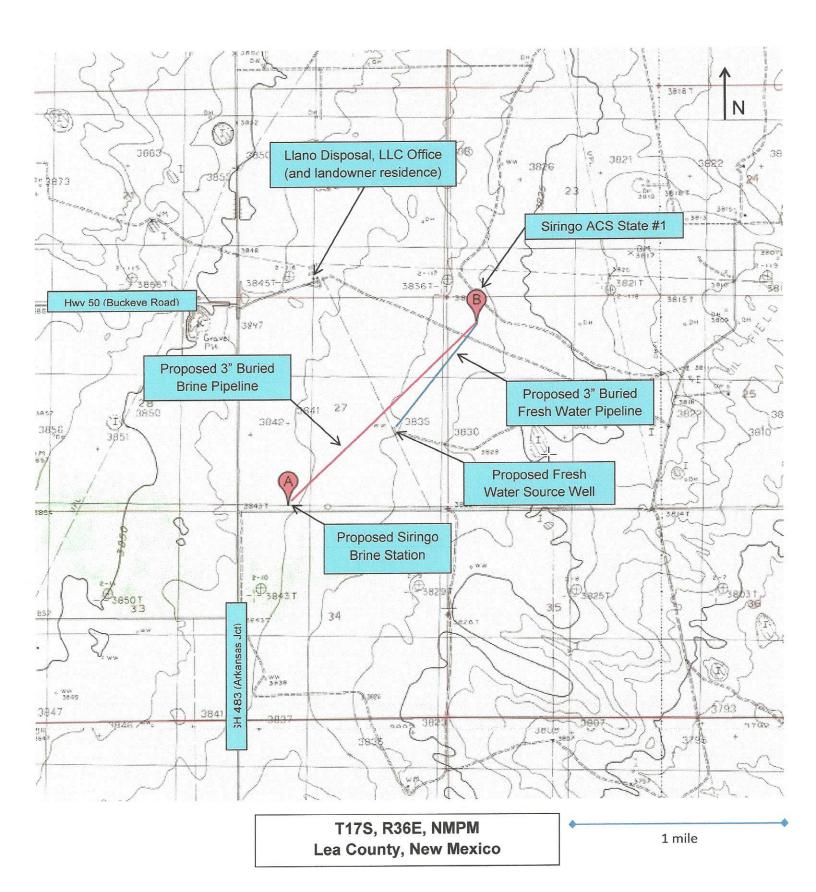
# Attachment Index

Attachment	Description
Α	Overview Map of General Area
В	USGS Topo Map of Area
С	Aerial Photo with Ground Water Monitor Wells
D	1 Mile Area of Review with Oil/Gas Wells and Fresh Water Wells
E	Brine Well Location Site Plan
F	Brine Station Site Plan
G	Plugging Records for Offset Wells Within the 1 Mile Area of Review
Н	MSDS for Corrosion Inhibitor Utilized on Brine Well Location
1	NMOCD Drilling, Comp, P&A Records for Siringo ACS State #1
J	Water Analysis Test Results on Area Fresh Water Wells
K	Siringo Emergency Contingency and Response Plan
L	Schematics for Brine Station, Brine Well Location and Brine Well
M	Area Geology Map and General Lithology
N	Cross-sections of Geologic Structure at Siringo ACS State #1
0	USGS Drainage Map of Project Area
Р	Subsidence Monument Design and Installation Procedure
Q	Public Notice for Onsite Sign Posting
R	Public Notice for Offsite Posting (Lea County Courthouse)
S	Public Notice Letters to Adjoining Property Owners, SLO, Mineral Lessee
Т	Public Notice in Lovington Leader Newspaper

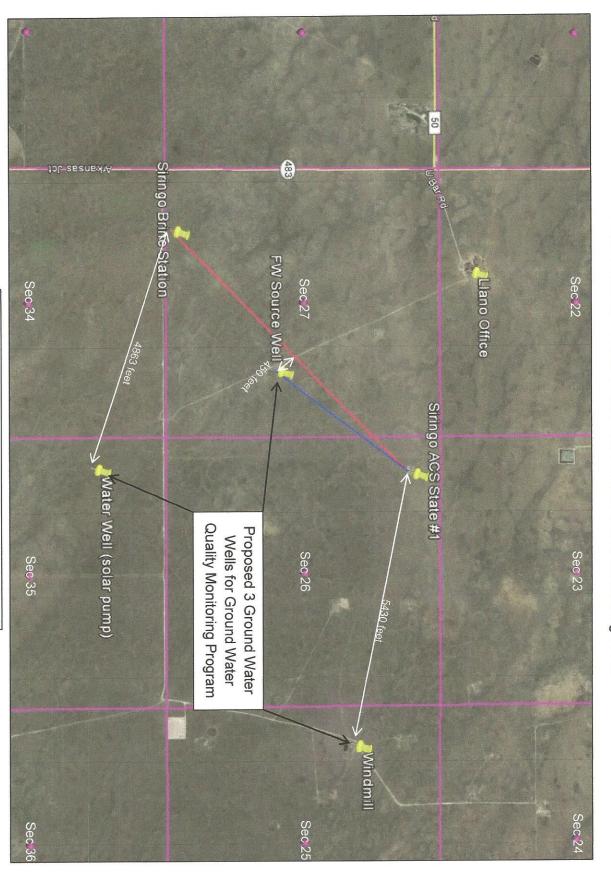
## Attachment A - General Area Overview Map



## Attachment B - Area USGS Topo Map

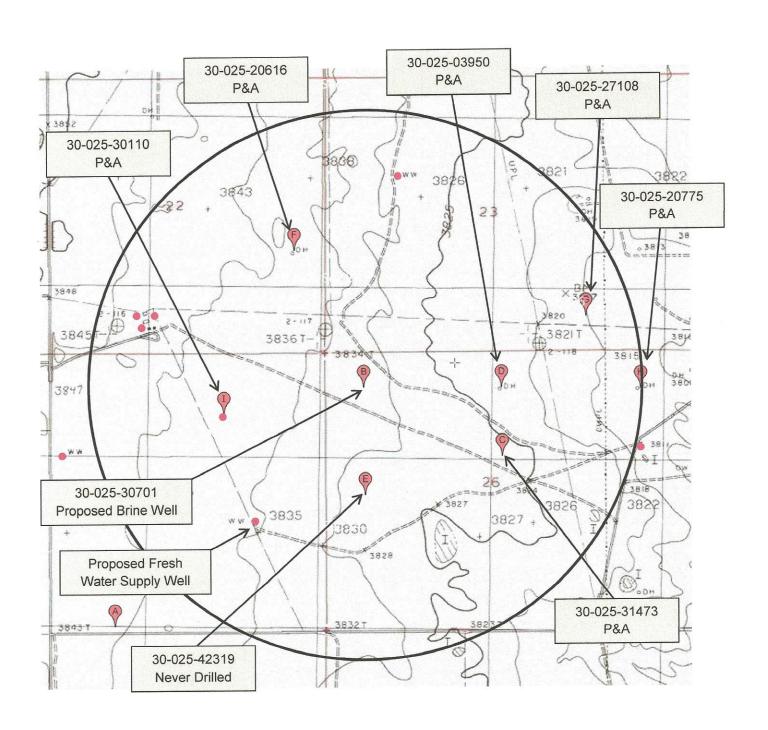


Attachment C - Aerial Photo with Ground Water Monitoring Wells



T17S, R36E, NMPM Lea County, New Mexico

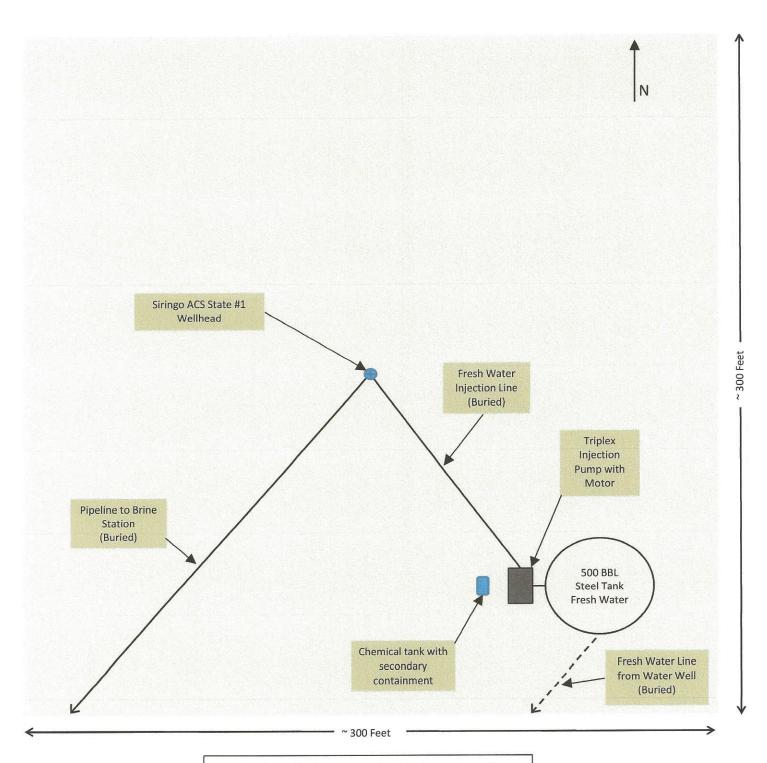
# Attachment D - 1 Mile AOR with Oil/Gas Wells and Fresh Water Wells



Fresh Water Wells

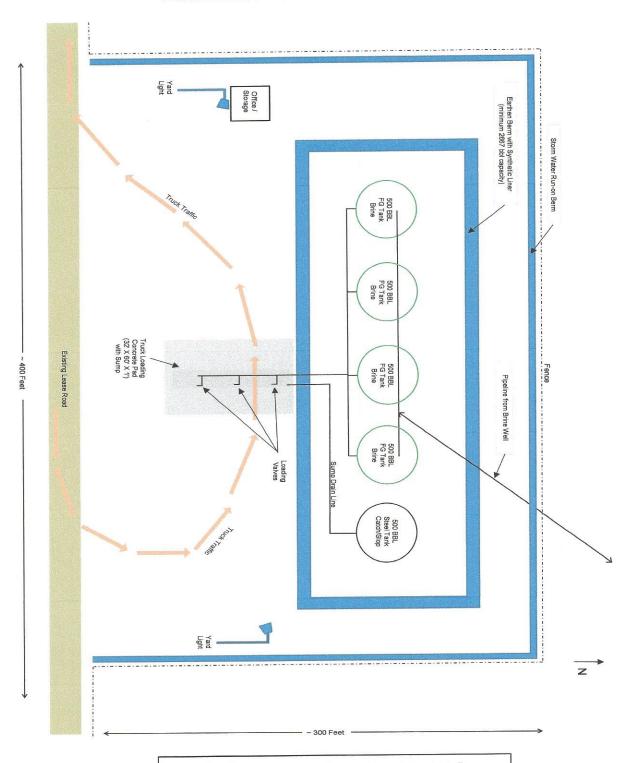
T17S, R36E, NMPM Lea County, New Mexico

## Attachment E - Well Location Site Plan



Surface Owner - Angell #2 Family LP P. O. Box 190, Lovington, NM 88260 Drawing Not to Scale

# Attachment F - Brine Station Site Plan



Surface Owner - Angell #2 Family LP P. O. Box 190, Lovington, NM 88260 Drawing Not to Scale

¥			-
Submit 3 Copies to Appropriate District Office	State of New Mex Energ linerals and Natural Res		Form C-103 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 2088	8	WELL API NO. 30-025-31473
DISTRICT II P.O. Drawer DD, Artesia, NM. 88210	Santa Fe, New Mexico 8	87504-2088	STATE STATE FEE
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 8741	0		6. State Oil & Gas Lease No. V-3762
	OTICES AND REPORTS ON WEL		
DIFFERENT RES	PROPOSALS TO DRILL OR TO DEEPEN ( SERVOIR. USE "APPLICATION FOR PER A C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name
1. Type of Well: OIL. OAS WELL X WELL.	OTHER		Perseus 26 State
2. Name of Operator Maralo, Inc.	which photocom the contract of		8. Well No.
3. Address of Operator P. O. Box 832, Mid	land, TX 79702		9. Pool name or Wildcat Spencer (Penn)
4. Well Location	1980 Feet From The East		30 - North
	40.00	12-12-13-13	
Section 26	Township 17S Rate 10. Elevation (Show whether 1 3827 '		NMPM Lea County
11. Chec	ck Appropriate Box to Indicate N	Nature of Notice, R	eport, or Other Data
NOTICE OF I	NTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	G OPNS. PLUG AND ABANDONMENT X
PULL OR ALTER CASING		CASING TEST AND C	EMENT JOB
OTHER:	plants potentially the special plants and also are strong pour and an experience of the special plants.	OTHER:	
<ol> <li>Describe Proposed or Completed Owork) SEE RULE 1103.</li> </ol>	perations (Clearly state all pertinent details, an	nd give pertinent dates, inclu	uling estimated date of starting any proposed
2-3-93 PU & GIH w/ 15 OCD on location.	8 jts tbg CIBP @ 10,010.	Mix & circ 10	# mud laden fluid. Jack Griffin,
2-4-93 POH w/ 2 7/8"	tbg to 7512'. Load hole	w/10# mud lader	n fluid. Mix & pump 25 sx Cl. "C" dump 35' cemt on top of plug.
GIH w/ 2 7/8" tbg to 4	800'. Load & circ hole w	v/10# mud laden	fluid. Pull the up hole to 4500'.
			bbls 10# mud laden fluid. RU WL. GIH w/130 jts 2 7/8" tbg to 3172'.
Pump 50 sx Cl. "C" cem	nt plug @ csg stub 50' in	& 50' out. Buc	ddy Hill, OCD witnessed 1st plug.
2-8-93 GIH W/20 Jts. plug @ 1504'. Displace	ced hole w/8.5 bbls 10# m	o plug @ 3078'. ad laden fluid.	OCD rep ok'd. Pumped 50 sx TOH in singles. Pumped 50 sx
pluq @ 450'. Displace	ed hole w/2.5 bbls 10# mud	d laden fluid.T	OH in singles. Cut 13 3/8" +
Well P & A'd.	set 5 sx plug @ surface.	. installed dr	y hole marker. Cut off dead men.
I hereby certify that the information above	is true and complete to the best of my knowledge and	belief.	· · · · · · · · · · · · · · · · · · ·
SIGNATURE Donathe	Omen. TI	Agent Agent	DATE February 16, 1993
TYPE OR PRINT NAME DOI	rothea Owens		TELEPHONE NO. 915 684-7441

ATTACHMENT "G"

Page 1 of 7

Ë:

MAR 25 1993

# ATTACHMENT "G"

# NEW MEXICO OIL CONSERVATION COMMISSION MISCELLANEOUS REPORTS ON WELLS

Form C-103 (Revised 3-55)

30-025-03950

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

COMPANY Mon	eanto Chemie	al Company	p.	O. Box	h92.	Smyder	Toxan		
100011	pari oo orange		Addre						
LEASE Stat	e aGm	WELL N	10. 1	UNI	ТВ	S 2	6 T 1	7 8	R 36 E
DATE WORK F	'ERFORMEI	9-13-57		PO	OL_	-	stepated		
						Les	County, Ne	w Mex	ico
This is a Repo	rt of: (Chec	k appropri	ate blo	ock)		Result	s of Test	of Ca	sing Shut-off
Begin	ning Drilling	g Operation	ıs			Remed	ial Work		
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Detailed accou	(30 min.)	98, Recover 2225#.	ed kos	O' Brack	dsh :	Sulfur			
	3162-8298 w/k 6062-6190 w/k 5175-5365 w/6 1873-k923 w/2 729-779 w/3 291-3k1 w/k 0-30 w/3	O sxs., tot O sxs. O sxs., bot O sxs., Rec O sxs., bot O sxs., bot	ton of	9-5/8: 9-5/8: 13-3/8:	cag.	e 1,898 • T/Sal • 8 316	\$ @ 21 <b>3</b> 01	on and	name was
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Tbng. Dia	Thng Dep	oth	Oil	String	Dia		Oil Stri	ng De	pth
Perf Interval (	s)						Marko Approx and the approximation of the second		
Open Hole Inte	rval	Pr	oducin	g Form	ation	n (s)			
RESULTS OF	WORKOVER	*				BE	FORE	A	FTER
Date of Test									
Oil Production	, bbls. per	day				- WARRING TO A STATE OF THE STA	Control Control		
Gas Productio	n, Mcf per d	lay				-			
Water Product	tion, bbls. p	er day							
Gas Oil Ratio	, cu. ft. per	bbl.					observation of the state of the		
Gas Well Pote	ntial, Mcf p	er day						-	edynaptic grade on consistence and defendably consistence as
Witnessed by_	T. H. Poster	, Prod. Fer	reman_		-	Mon	anto Cham	NAME AND ADDRESS OF THE OWNER, WHEN	The Part of the Pa
The second secon				Thomas		-A:C- 45	Management with the second contract of the second	pany)	
OIL CONS	SERVATION	COMMISSI	ON		•	-	complete		tion given best of

30-025-20616

U.S.U.S. LAND OFFICE		NEW A	ME TICO OIL				(Rev 3-55)
THANSFIRTER	HL AS		CELLANE				1
PROPATION OFFICE		(Submit to a	appropriate Dis	trict Office	as per Commi	ssion Rule 111	06)
ame of Company	Campana Per	troleum Company	1		1652, <b>M</b> 41	and, Texas	
ease Bran	ble - State	Well	No. Unit Le	trer Section	Township 1	7-8 Ra	36-E
late Work Periors	, 1964	Wildcat Wildcat			County	16.	
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annial C	rilling Operations		Test and Cemen	t lab	Other (Exp	lain).	
Plugging		Remedia			and the second s		
Spotte Spotte Spotte Spotte	ed 25 sack pi ed 25 sack pi ed 10 sack pi ed drilling :	ing 3300 to 340 ing 2000 to 210 ing 250 to 350 ing at surface, and between all formed by Downl	O across to in and out installed plugs and	of of Sal of surfi proper ( back fil	it. nee casing. iry hole ma iled pits a	rker.	up location.
Witnessed by	A. D. Bell	FILL IN BELOW		IAL WORK		_	Leam Company
D F Elev.	TT D		ORIGINAL W	ELL DATA	Producing	Interval	Completion Date
			and the same of th				
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Open Hole Inter	rval		I	Producing Fo	rmation(s)		
			RESULTS OF	WORKOVE	R		
Test	Date of Test	Oil Production BPD	Gas Product		er Production BPD	GOR Cubic feet/B	Gas Well Potential
Before Workover	A C-SV				mer i Egif	The receipt of	III.OLE D
After Workover							
	OIL CONSERVA	ATION COMMISSION			ertify that the in t of my knowled		above is true and complet
Approved by	den u.	Runya	£ 1	Name (A. D.	Bell)	all	2ell
Title			· · · · · · · · · · · · · · · · · · ·	Position			
				FOSICION	Partner		

# STATE OF NEW MEXICO

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20	. 022	10	• • •

JL CONSERVATION DIVISIO.	
	Form C-101
DISTRIBUTION P. O. BOX 2088	Revised 19-1-
SANTA FE, NEW MEXICO 87501	gen apparation in the second and approximate our relation to the consequence of the competence in consequence and applications are
Trice	Sa. Indicate Type of Lesse
LAND OFFICE	State X Foo
OPERATOR	5. State Oti & Gas Lease No.
	NM-5411-01
SUNDRY NOTICES AND REPORTS ON WELLS  TO NOT USE THIS FORM FOR PROPOSALS TO POPUL OR TO DETPEN OR PLUS BALL TO A DIFFERENT RESERVOIR.  USE "APPLICATION FOR PLANTED —" FFORM C. TOTEFFOR SCON PROPOSALS.]	
OIL CAS OTHER-	NA NA
Name of Operator	B. Farm or Lease Name
Cotton Petroleum Corporation	Scharbauer State
Address of Operator	9. Well No.
One Petroleum Center, Suite 201, Bldg. 6, Midland, Texas 79701	
Location of Well	Spencer (San Andre
UNIT LETTER P 660 FEET FROM THE SOUTH LINE AND 330 FEE	LASON LILLIANITATION OF THE PARTY OF THE PAR
THE East LINE, SECTION 23 TOWNSHIP 17-5 RANGE 36-E	(
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
3814' GR	Lea AllIIII
Check Appropriate Box To Indicate Nature of Notice, Report NOTICE OF INTENTION TO:	QUENT REPORT OF:
PERFORM REWEDIAL WORK PEUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON COMMENCE DRILLING OFFIS.	
TEMPORARILY ABANDON COMMENCE DRILLING OFFIS.	
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TEMPORARILY ABANDON  PULL OR ALTER CASING  OTHER	PLUG AND ABANDONMENT
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TEMPONARILY ABANDON  PULL OR ALTER CASING  OTHER  7. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, in work) TER RULE 1903.  (1) Set CIBP @ 3180' and cap with 5 sxs.	PLUE AND ABANDORMENT
TEMPONARILY ABANDON  PULL OR ALTER CASING  OTHER  17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, in work) THE RULE 1903.  (1) Set CIBP @ 3180' and cap with 5 sxs.  (2) Spot the following neat cement plugs: 1900'-2000' 20 sxs.; su	PLUE AND ABANDORMENT
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Production Engineer

NO. OF COPIES RECEIVED	pass	
DISTRIBUTION		Form C-103 Supersedes Old
SANTAFE	NEW MEXICO OIL CONSERVATION COMMISSION	C-102 and C-103
FILE	MENTED OF CONSERVATION COMMISSION	Effective 1-1-65
U.S.G.S.	(30-015-207	755a. indicate Type of Lease
LAND OFFICE	3002-201	State X Fee
OPERATOR		Transact Transact
	RE - ENTRY	5, State Cil & Gas Lease No.
SUNDS	DY NOTICES AND DEPOSITE ON WELLS	LG-498
200 407 USE THIS FORM FOR PO SSE WAPPLICAT	RY NOTICES AND REPORTS ON WELLS  OPOSALS TO ORILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  FION FOR PERMIT _** (FORM C-101) FOR SUCH PROPOSALS.)	
MELL X GAS C	OTHER-	7. Unit Agreement Name
TEXAS CRUDE, INC		8. Farm or Lease Name
7. Address of Operator	* *	C.W.Trainer"25" State
508 Wall Tower	s East, Midland, Texas 79701	9. Well No.
4. Location of Well	TOTAL TOTAL	io. Field and Pool, or Wilscat
GREET LETTER D	660 ELLE FROM THE NORTH LINE AND 660 FEET F	11111 1
ME ANNUAL PROPERTY LINE, SECTI		m. [[[]][[]][][][][]
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	3805.55' GR	LEA ()
Check	Appropriate Box To Indicate Nature of Notice, Report of	Other Data
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PERFORM REMEDIAL MORK		
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The casing	CHANGE PLANS CASING TEST AND CEMENT JOB	
	ormen Re-Entry of Pe	ernzoil United - State
CTHER	25 Well #1 (drilled	d in 1964, P&A 3-23-72)
17. Letrice   reposed or Completed O	perations (Clearly state all pertinent details, and give pertinent dates, inclu	
work) SEE RULE 1103.	the pertinent details, and give pertinent dates, inclu-	ding estimated date of starting any proposed
12-1-72 - The foll	owing procedure was approved by OCC Office in	Hobbs N.M. before
done: Cleaned out	to 7226' - Straddle Tested from 6845-7010 and	1 66/5 60/5
recovered. Spott	ed the following cement plugs:	0043-0845. No Oil or Gas
	455. 43 goals for 5000 gres	
Prillod 9 5 (01)	455; 4) sacks from 5600-5465; 40 sacks in both	com of 8 5/8" 4790-4655.
Castile	LLOW dDDTOXIMATELY INTO cot 50 costs 6	1050-950': 50 sacks in both
		, so sacks in both
wernen brar fu fob o	I 13 3/8" casing.	
Erected dry hole mar	ker.	
Work completed 12-1-	72	
	Accounts	
		5.
		w.
18. I hereby certify that the information	s above is true and complete to the best of my knowledge and belief.	
-17 Ton	the first	
SIGNED	Dist. Supt	DAYE 12-1-72
11.11	100	
ADDROVED BY AMARE	legg	
CONDITIONS OF APPROVAL, IF ANY	. 00	OATE 4
	ATTACHMENT "G"	Page 50f7
		. /

Submit 3 Copies to Appropriate District Office		ew Mexico ural Resources Departmer	30-015-30		n C-103 ised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240		ATION DIVISION Ox 2088	WELL API NO. 30-025-30	110	
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New M	exico 87504-2088	5. Indicate Type of	Tease _	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas V-1687	STATE LX	FEE
( DO NOT USE THIS FORM FOR PR DIFFERENT RESI	TICES AND REPORTS OF ROPOSALS TO DRILL OR TO D ERVOIR. USE "APPLICATION F C-101) FOR SUCH PROPOSAL	EEPEN OR PLUG BACK TO A OR PERMIT	7. Lease Name or I Marathon		Name
OIL GAS WELL [	OTHER	Re-entry			
2. Name of Operator Tom Schneider	,	1	8. Well No. 1		
	St., Suite2n4 Energy	/ Sq. Midland, TX	9. Pool name or W Wildcat	/ildcat	
4. Well Location Unit Letter B : 130	OO Feet From The North	Line and1980	Feet From	The East	Line
Section 27	Township 17-S		NMPM	Lea	County
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18. I hereby certify	that the information above is u	ut and complete to the best	or my knowledge and belief.		

CONDITIONS OF APPROVAL, IF ANY

**ATTACHMENT "G"** 

.... Dist. Drlg Superintendent

OIL & GAS INSPECTOR

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# TECHNI-HIB™ 606 Corrosion Inhibitor

CHEMICAL

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**Product Information** 

## Description

TECHNI-HIB 606 corrosion inhibitor is a water-soluble combination of a cationic filming corrosion inhibitor and sulfite-based oxygen scavenger.

#### Uses

TECHNI-HIB 606 corrosion inhibitor has been developed for use as a packer fluid inhibitor, hydrostatic test inhibitor and general purpose filming corrosion inhibitor for water injection systems, water disposal operations, power water pumping systems and high water/oil ratio producing oil wells where a small amount of oxygen is present.

## **Application**

TECHNI-HIB 606 corrosion inhibitor can be injected continuously into a system at a rate of 60 to 120 ppm (1 to 2 quarts per 100 barrels of water). When used as a packer fluid inhibitor, 2500 to 5000 ppm (10 to 20 gallons per 100 barrels of water) is required. When used as a hydrostatic test fluid inhibitor, TECHNI-HIB 606 corrosion inhibitor injected at a rate of 500 to 3500 ppm is typically recommended dependent on conditions.

### **Technical Data**

Specific Gravity @ 60°F Pounds Per Gallon @ 60°F 0.991 - 1.027

6-6.5

8.26 - 8.56

Freeze Point -5°F Flash Point(TCC) 98°F

pH

Appearance Dark Brown Liquid

SOLUBILITIES:

Fresh Water 2% Brine Soluble Soluble Soluble

15% Brine Crude Oil

Insoluble

### Safety Precautions

**WARNING!** FLAMMABLE. Keep away from heat, sparks, and open flame. Keep container closed when not in use. Do not breathe vapors, use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

#### References

2

TECHNI-HIB 606 corrosion inhibitor is available in 55-gallon drums and bulk quantities. Refer to Material Safety Data Sheet for additional information and first aid.

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The above features and/or data are supplied solely for informational purposes and BJ Services Company makes no guarantees or warranties, either expressed or implied, with respect to their accuracy or use. All product warranties and guarantees shall be governed by the BJ Services Company standard at the time of sale or delivery of service. Actual product performance or availability depends on the timing and location of the job, the type of job and the perfocular characteristic of each lot. This decrument is controlled the type reference data. To ensure that this is in the current version the Sarvices section of the BJ Services Website (www bjscrvices.com) or six your BJ representative.



## BJ CHEMICAL SERVICES MATERIAL SAFETY DATA SHEET



Page 1

Section: 01 PRODUCT IDENTIFICATION

BJ CHEMICAL SERVICES 707 N. LEECH HOBBS, NM 88241-1499 TELEPHONE: (575)393-7751 Emergency Telephone Previous Version Date Date Prepared Version: 0000009

pH: 6 - 6.5

CHEMTREC (800)424-9300 5/20/03 10/30/03

Product Name: TECHNI-HIB 606 Trade Name: Packer Fluid Inhibitor

Chemical Description:

Combination oxygen scavenger/corrosion inhibitor

Section: 02 HAZARDOUS INGREDIENTS

Component Name methanol isopropyl alcohol ammonium bisulfite 000067-56-1 < 15% 000067-63-0 < 10% 010192-30-0 < 10%

Section: 03 PHYSICAL DATA

Freezing Point:'- 5 Deg.F.

Boiling Point, 760 mm Hg: approx. 200 Deg.F Specific Gravity(H2O=1): 1.009 Solubility in water: Soluble

Appearance and Odor: Dark brown liquid; pungent odor.

Section: 04 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): 98 Deg.F TCC

Extinguishing Media

CO2, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal.

Special Fire Fighting Procedures

Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away.

Unusual Fire and Explosion Hazards

This material is volatile and readily gives off vapors that may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

Section: 05 HEALTH HAZARD DATA

Effects of Overexposure

Eye Contact: causes moderate to severe conjunctival irritation, (including burning sensation, tearing, redness or swelling), corneal injury and iritis. Corneal injury may be marked, extensive, and if not promptly treated, may possibly lead to permanent impairment of vision.

Skin Contact: causes local redness, swelling and chemical burns. May cause immediate skin irritation, blistering and/or dermatitis in some individuals. Prolonged or widespread exposure may result in the absorption of potentially harmful amounts of material.

Inhalation: vapors are irritating and may cause excessive tear formation, intoxication, burning sensation of the nose

ATTACHMENT "H"

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and throat, coughing, wheezing, shortness of breath, nausea, vomiting, headache, dizziness, narcosis, unconsciousness, cardiac depression or coma. May also cause symptoms of lack of oxygen leading to collapse and possible death. Extremely high vapor concentrations may cause lung damage. Some Some individuals may develop asthma. Repeated exposure may cause liver and kidney injury.

Ingestion: may cause blindness, narcosis, nausea, vomiting, throat and abdominal pain, acidosis, diarrhea, dizziness, weakness, thirst, collapse and possible coma or death. The nature and severity of these signs and symptoms will be dependent on the amount swallowed.

Additional Information: methanol is a component of this product. It can be highly toxic, even lethal, in inhalation exposures, but most of the literature on methanol poisoning deals with accidental or intentional ingestions. There are three stages of toxicity from acute exposures (either by inhalation or ingestion) to methanol: (1) a rapid narcotic effect involving drowsiness or fatigue with mild irritation of the eyes and mucous membranes, (2) a latent period of 10-15 hours, followed by (3) more severe CNS effects including nausea, vomiting, dizziness, headache, failing eyesight, visual disturbances, metabolic acidosis, and deep respiration. The last stage is thought to be due to the formation of toxic metabolite(s) of methanol. Permanent toxic effects can be produce from a single exposure. The effects include damage to both central and motor nerves and blindness due to damage to the optic nerve. Other symptoms to exposure to methanol include roaring in the ears, insomnia, rapid eye movements, tremor, dizziness, loss of coordination, diluted pupils, atching of the skin, skin irritation, and dermatitis caused by removal of skin oils. As little as 15mL can cause blindness and 30-250mL can be fatal. Methanol can be absorbed through the skin in toxic amounts. Since it is eliminated slowly from the body, it can have cumulative toxic effects from daily exposures. Subacute ingestion of methanol has caused liver damage in laboratory animals. It has shown to be a teratogen and a fetotoxin in tests on laboratory animals. It has shown some genetic effects in laboratory tests.

Target Organs: eyes, skin, lungs, CNS, liver and

Emergency and First Aid Procedures

SKIN

Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

EYES

Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

INHALATION

Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

INGESTION

Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

Section: 06 REACTIVITY DATA

Stable (Y=Yes/N=No): Y
Stability -- Conditions to Avoid
None known.
Incompatibility (Materials to Avoid)
Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids.
Hazardous Decomposition Products
Smoke, carbon dioxide, carbon monoxide, oxides of nitrogen.
Hazardous Polymerization May Occur(Y=Yes/N=No): N
Hazardous Polymerization -- Conditions to Avoid
None

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Section: 07 SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with sand or earth. Recover undamaged and minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers. Advise authorities. If this product is an EPA hazardous substance (see Section 10), notify the U.S.EPA and/or the National Response Center. Additional notification pursuant to SARA Section 302/304 (40 CFR 355) may also be required. Waste Disposal Method

Treatment, storage transportation and disposal must be in accordance with EPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271) If product requires disposal, ignitability (D001) would be applicable.

Section: 08 SPECIAL PROTECTIVE INFORMATION

Respiratory Protection

If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

Ventilation

The use of mechanical dilution ventulation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

Protective Gloves

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

Eye Protection

Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Equipment Eye wash and safety shower

Section: 09 SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing
Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames
and never use a cutting torch on or near container (even
empty) or explosion may result. Vapors may travel to areas
away from the work site and ignite.

Other Precautions

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes.

Section: 10 REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act Of 1986(SARA) Title III Section 302/304-Extremely Hazardous Substances (40 CFR 355)

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SARA requires emergency planning based on Threshold Planning
  Quantities (TPQs) and release reporting based on Reportable
  Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311
  and 312). These values are subject to change and the
  regulations should be consulted to verify current statutory
  requirements.
      Components present in this product at a level which
  could require reporting under the statute are:
                                                                      % Range
  Component Name
       **NONE**
 Section 311/312 Chemical Inventory Reporting Requirements (40 CFR 370)
  The Superfund Amendments and Reauthorization Act (SARA) may
  require submission of reports (chemical list, MSDS, Tier I &
  Tier II) to the State Emergency Response Commission, Local
  Emergency Response Committee and the local fire department.
  The SARA physical and health hazards related to this product
                                         Sudden Release of Pressure
                                                                        X Fire
  X Acute Health Hazard
                                         Reactive
  X Chronic Health Hazard
 Section 313-List of Toxic Chemicals (40 CFR 372)
  This product contains the following toxic chemicals subject
  to the reporting requirements of Section 313 of the
  Emergency Planning and Community Right-to-Know Act of 1986
  (40 CFR 372). This information should be included in all
  MSDSs that are copied and distributed for this material.
                                                         CAS #
                                                                      % Range
  Component Name
                                                         000067-56-1 < 15%
  methanol
 CERCLA, 40 CFR 261 AND 302
  The Comprehensive Environmental Response, Compensation, and
  Liability Act of 1980 (CERCLA) requires notification of the
  National Response Center 1-800-424-8802 of any release of a
  Hazardous Substances equal to or greater than the reportable quantities (RQs) listed in 40CFR 302.4. Values are given in
  pounds for the component and not the mixture, if applicable.
   (These values are subject to change and the regulations
   should be consulted to verify current statutory levels.)
                                                                   CERCLA RQ
                                                         CAS #
  Component Name
                                                         000067-56-1
                                                                         5000
  methanol
                                                         010192-30-0
                                                                         5000
  ammonium bisulfite
OSHA Exposure Limits
 Component Name
 methanol
            200.0 TWA MG/M3: 260.0 STEL ppm: 250.0 STEL MG/M3: 325.0 Skin: X
  TWA ppm:
 isopropyl alcohol
  TWA ppm: 400.0 TWA MG/M3: 980.0 STEL ppm: 500.0 STEL MG/M3: 1225.0
National Fire Protection Agency
                                       3 Fire
   2 Health
                                             Other
   0 Reactive
Department of Transportation Shipping Information
 Proper Shipping Name: Flammable liquids, n.o.s.
Hazard Class: 3
                                         Identification: UN1993
 Packaging Group: PG III
 Contains: methanol, isopropyl alcohol
                                     Emergency Response Guide Number: 128
 Hazardous Substance RQ: 33333#
Labels: Flammable liquid
Toxic Substances Control Act (TSCA), 40 CFR 261
 This product, or components if product is a mixture, is/are
 listed on the Toxic Substances Control Act (TSCA) inventory.
 Section 10 information is to remain attached to the material
 safety data sheet for this product.
 While BJ CHEMICAL SERVICES believes that the above data is
 correct, BJ CHEMICAL SERVICES expressly disclaims liability
 for any loss or injury arising out of the use of this
 information or the use of any materials designated.
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END OF MSDS

# ATTACHMENT "H"

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