STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

source of drinking water.

to the best of my knowledge and belief.

Nelson Muncy

Certification

Signature:

of the earlier submittal.

XIII.

Yates Petroleum Corporation Case No. 7872

FORM C-108 Revised 7-1-81

	5/25/83 Examiner Hearing
APPLIC	Exhibit No. 1
I.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? yes X no
II.	Operator: Yates Petroleum Corporation
: '	Address: 207 S. 4th Street; Artesia, N.M. 88210
,	Contact party: Nelson Muncy Phone: (505) 746-3558
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? yes no If yes, give the Division order number authorizing the project
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
· VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
·VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
* X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
× XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance

examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground

Applicants must complete the "Proof of Notice" section on the reverse side of this form.

I hereby certify that the information submitted with this application is true and correct

Title

Subject well logs, were submitted to NMOCD in Hobbs.

Engineer

FORM C-108 Supplement

Swan "VB" State #2

I. Purpose:

To deepen the Swan "VB" State #2 from the present PBTD of 10,101' ($5\frac{1}{2}$ " csg. to 10,156' TD) to 10,350' and convert to salt water disposal status injecting in 10,156-350' (Open hole) and 10,071-77',10,104-36' (cased hole)

II. The Operator is Yates Petroleum Corporation 207 South Fourth Street Artesia, New Mexico 88210

Attn: Nelson Muncy

III. Well Data:

See attached well data sheet.

- V. Ownership map attached (Midland Map Co.) with a scale of: 1" = 2,000'. Well and lease information posted through 4-15-83. Map has a two-mile radius circle and a one-half mile radius circle.
- VI. There are six wells, not including the proposed disposal well within the area of review, as indicated by the attached map. All available data concerning the six wells is included in the attached tabulation and schematic.

VII. Data on proposed operations:

- (1). The proposed average daily rate of injection is 2,000 bbls per day and the estimated ultimate maximum daily rate is 4,000 bbls per day. The estimated total volume of fluids to be injected is 2.19 X 10⁷ bbls.
- (2). The system will be closed with an oil seal.
- (3). The average injection pressure is 0 to 2,031 PSIG.
- (4). The source of the injection fluid will be produced water from the following Yates Petroleum Corporation wells that are producing from the Permo-Upper penn zone in the general area of the subject well, identified as follows:
 - a. Woodpecker "SY" St. #1 660' FNL & 660' FEL Sec. 21-T14S-R33E See attached analysis.
 - b. Woodpecker "SY" St. #2
 1980' FNL & 660' FEL
 Sec. 21-T14S-R33E
 See attached analysis
 - c. Woodpecker "SY" St. #3
 660' FNL & 1800' FEL
 Sec. 21-T14S-R33E
 See attached analysis.
 - d. Woodpecker "SY" St. #4
 660' FNL & 1980' FWL
 Sec. 21-T14S-R33E
 See attached analysis

Form C-108 Supplement Swan "VB" #2 Page 2

- e. Woodpecker "SY" St. #5
 1980' FNL & 1980' FEL
 Sec. 21-T14S-R33E
 No analysis available at this time. Any analysis should be consistant with those of other wells in this area.
- f. Swan "VB" St. #1
 1980' FSL & 660' FEL
 Sec. 21-T14S-R33E
 See attached analysis.
- g. Dove "VK" St. #1
 1980' FSL & 660' FEL
 Sec. 3-T14S-R33E
 See attached analysis.
- h. Hanladdie "WR" St. #1 1980' FSL & 1980' FWL Sec. 9-T14S-R33E See attached analysis.

The water produced from subsequently drilled wells in this area will also utilize the disposal well covered by this application.

(4). & (5).

The produced chlorides range from 10,897-38,991 MG/L in the wells that are proposed to be the source of injected fluids. The subject well is not open in the proposed injection zones and a water analysis is not available. However, a water analysis for the proposed injection zone is available from the LDM Amoco "GX" St. #1 ($2\frac{1}{2}$ miles west in Sec. 19-T14S-R33E), which reported the chlorides as 18,000 MG/L from the attached DST #5 (10,410-450'). Therefore, injection compatibility appears acceptable.

The proposed injection zone is included within the vertical limits of the Saunders Permo-Upper Penn pool, as correlative with the Adobe Gray 35-1 in Unit N of Sec. 36-T14S-R33E, the type well for the field rules. However, the proposed injection zones are stratigraphically lower than the oil productive zone in this field.

VIII. Geological data:

Injection znne: Lower Cisco (Permo-Upper Penn) 10071-10136' limestone, buff, to white, calc, sli. fragmented, xln. Canyon (Permo-Upper Penn) 10,156-350', dolomite, wht creamy, xln, vuggy good porosity, decreasing with depth.

The underground source of drinking water in this area is Ogollala formation of Tertiary age, the base of which is estimated at 250' at the location of the proposed disposal well. The Chinlee formation is also a fresh water aquifer which immediately underlies the Ogollala formation. Both of these aquifers are behind the surface pipe of the well covered by this application.

- IX. The proposed stimulation program is to selectively treat the proposed Cisco perforations 10071-10136 and open hole Canyon zone 10156-10350 with 5,000 gallons of 15% acid each.
- X. CNL, FDC, DLL, logs have been submitted to the NMOCD in Hobbs.

Supplement Form C-108 Swan "VB" St. #2 Page 3

- XI. The only water well of record within the one-mile radius circle is located in Unit L of Sec. 27-Tl4S-R33E. A water analysis from a sample obtained on February 4, 1983 is attached.
- XII. Available geological and engineering data have been examined and no evidence of open faults or any other hydrologic connections between the disposal zone and any underground fresh water aquifers have been found.
- XIII. The off-set operators listed below have been furnished a copy of this application by certified mail.

Yates Petroleum Corporation 207 S. 4th Street Artesia, N.M. 88210

P.O. Box 2159 Dallas, Tx 75250

American Petrofina

McGraff & Smith 209 Gihls Tower West Midland, Tx 79701 MWJ Producing Company 1804 1St Natl Bank Bldg. Midland, Tx 79701

Texaco, Inc.
P.O. Box 2767
Houston, Tx 77097

The surface owners listed below have been furnished a copy of this application by certified mail.

Geraldine Tulk
Box 666
Lovington, NM 88260

Raymond M & Marsha Hilburn Box 303 Caprock, NM 88213

Texaco, Inc. 402 W. Ave E Lovington, NM 88260 Jerry & Bob Dean Box 845 Lovington, NM 88260

Additional data submitted:

Petroleum information (P.I.) cards submitted on all wells within a two-mile radius circle.

INJUCTION WILL DATA SHEET

	LUCATION FSL & 1980' FE	SECTION	TOWNSHIP 14s	(St. Lse #LG-3675 RANGE 33#
Schematic			<u> Tabular Data</u>	
		Surface Casing		
•		Size 13 3/8"	" Cemented	with 400 sx.
			feet determine	
			7½"	
see attached				_
		Intermediate Casin		
			" Cemented	
			feet detérmine	d by Visual
		Hole size $12^{\frac{1}{4}}$		
		Long string		
		Size <u>5½"</u>	" Cemented	with 925 sx
		TOC 7790'	feet determine	d by Cmt. Bond Log
		Hole size7	7/8"	,
		Total depth <u>10</u>	,350'	
		Injection interval		
		•	eet to 10136'	feet (perforat
		(perforated or open	en-hole, indicate w	hich)
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ubing size <u>2 7/8"</u>	(<u>or) 3½"O</u> Dline	d with <u>Plastic</u>	(material)	set in a
guiberson U	NI VI	((material)	
guiberson UI (brand and mo	NI VI odel)	pack	(material) ker at <u>l-000</u> '	
guiberson U (brand and mo or describe any othe	NI VI odel)	pack	(material)	
(brand and mo or describe any othe Other Data	NI VI odel) er casing-tubin	g scal).	(material) (er at <u>1-000'</u>	
guiberson UI (brand and mo or describe any othe Other Data 1. Name of the inject	NI VI odel) er casing-tubin ction formation	pack g seal). Cisco Canyon	(material) ker at 1-000'	
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guiberson UI (brand and mo for describe any other Other Data 1. Name of the inject 2. Name of Field or 3. Is this a new we If no, for what 4. Has the well eve and give pluggin	NI VI odel) er casing-tubing etion formation Pool (if appli ll drilled for purpose was the r been perforat q detail (sacks	cable) Saunders Pe injection? /// Yes well originally dra ed in any other zone of cement or bridge	rmo-Upper Penn s /XX No illed? Oil prod c(s)? List all suce plug(s) used) 97	uction h perforated interva 93-9805, 9825-27'
guiberson UI (brand and mo (or describe any other Other Data 1. Name of the inject 2. Name of Field or 3. Is this a new we If no, for what 4. Has the well eve and give pluggin 9837-39, 9843	NI VI odel) er casing-tubing etion formation Pool (if appli 11 drilled for purpose was the r been perforat g detail (sacks -54', 9887-990	cable) Saunders Pe injection? /// Yes well originally dried in any other rone of cement or bridge 9, 9933-35', 9947-	rmo-Upper Penn XX No 1-000' 2	teet h perforated interva 93-9805, 9825-27' d with 125 sxs ceme
guiberson UI (brand and mo or describe any other ther Data Name of the inject Name of Field or Is this a new we If no, for what Has the well eve and give pluggin 9837-39, 9843	NI VI odel) er casing-tubing etion formation Pool (if appli 11 drilled for purpose was the r been perforat g detail (sacks -54', 9887-990	cable) Saunders Pe injection? /// Yes well originally dried in any other rone of cement or bridge 9, 9933-35', 9947-	rmo-Upper Penn XX No 1-000' 2	uction h perforated interva 93-9805, 9825-27'

TABULATION

Swan "VB" St. #2
Form C-108 attachment

Wells within the area of review:

Atlantic Hondo State #1: (Formerly the "U" State #1) 660' FSL & 660' FEL. Sec. 21-T14S-R33E. Originally spudded on 10-5-51, P/A 12-21-51. TD 10,028, Permo-Penn. Casing: 13 3/8" at 377' with 400 sacks, 17½" hole size. 9 5/8" at 4109' with 3500 sacks 12½" hole. P/A on 12-21-51 with 200 sacks, at 9274-9800' and 100 sack plug at 3856-4109'. Surface plug from 0-38'. Carl J. Westlund Inc. re-entered this well on 1-22-61. Cleaned out and ran 4½" casing at 10,025' with 200 sacks in 8 3/4" hole. Perforations 9925-9939', 9882-9898', 9840-9852'. Tested 5 bbls oil per day on 7-23-61. Operator changed to McGraff & Smith on 5-6-63, effective 9-1-63. Well was P/A on 1-28-64. A plug was set at 10,000' with 25 sacks, Shot off 4½" casing at 5216', ran 25 sack plug, ran 25 sack plug at 4100' base of 9 5/8", 10 sacks plug at surface. Schematic attached.

Swan "VB" #1: An oil well. Operated by Yates Petroleum Corporation. Located 1980' FSL & 660' FEL of Sec. 21-T14S-R33E. Spudded on 8-24-82, completed on 11-3-82 in the Permo-Upper-Penn (Bough). TD 10,324'. Production perforations from 9872-9948'. Perforated at 10,169-239' Squeezed 75 sacks. Perforated at 10,107-137'. Set cast iron BP at 10,090.

Woodpecker "SY" #2: An Oil well. Operated by Yates Petroleum Corporation. Located 1980' FNL & 660' FEL of Sec. 21-T14S-R33E. Spudded on 5-12-82 and completed on 8-9-82. TD 10,100'. 284 bbls oil per day (Bough). 9790-9963'. Casing 13 3/8" at 450' with 500 sacks. $5\frac{1}{2}$ " at 10,100 with 750 sacks. Production perforations from 9790-9964' (Bough).

Woodpecker "SY" #3: An oil well. Operated by Yates Petroleum Corporation. Located 660' FNL & 1800 FEL of Sec. 21-T14S-R33E. Spudded on 7-5-82 and completed on 8-26-82. TD 10,150'. 428 bbls oil per day (Bough). Casing 13 3/8" at 452' with 450 sacks, 8 5/8" at 4100' with 1815 sacks, and $5\frac{1}{2}$ " at 10,150 with 700 sacks. Production perforations from 9910-42, 9816-72'.

Woodpecker "SY" #5: An oil well. Operated by Yates Petroleum Corporation. Located 1980' FNL & 1980' FEL of Sec. 21-T14S-R33E. Spudded on 10-9-82 and completed on 1-10-83. TD, 10,160'. 290 bbls oil per day from Permo-Penn. Casing 13 3/8" at 450' with 450 sacks, 8 5/8" at 4185' with 1350 sacks and 5½" at 10,071 with 1300 sacks. Perforations 9941-42', 9949-53', 9955-62', 9886-99', 9903-05'. Production perforations, 9886-9962'.

Woodpecker "SY" #6: Operated by Yates Petroleum Corporation.

Located 1980' FNL & 1980' FWL of Sec. 21-T14S-R33E. Spudded on 3-10-83. TD 10,131'. Casing, 13 3/8" at 472' with 450 sacks, 8 5/8" at 4185' with 425 sacks and 5½" at 10,015' with 900 sacks, top of cement by temperature survey, 6900'.

Well is in process of being completed. Perforated at 9936-55'. Squeezed with 50 sacks. In process of perforating next Bough zone up the hole at this time.

Present Well Condition

YATES PETROLEUM CORP. SWAN "VB" ST. #2 CISCO FORMATION LEA COUNTY, NEW MEXICO

Spud 2-2-83 T.D. 2-28-83

Compl. 3-24-83

Elev. 4213 G.L. 4229 K.B.

> 13-3/8" 48# K55 ST&C @ 449'. Cemented w/400 sx Class C w/2% CaCl, (circulated to surface) 17-1/2" Hole to 475'

12-1/4" hole to 4192' 8-5/8" 32# J55 ST&C set @ 4192'. Cemented w/2598 sx Class C and "Lite", 5# salt and 2% CaCl2 (circulated to surface)

_Top of Abo @ 7740' _Top of Cement @ 7790'

_ Top of Wolfcamp @ 9104!

____ Top of Bough @ 9774'

Perf. 9793-9805, 9825-27, 9837-39, 9843-54, Treated w/4000 gal. 115% NEA & Ball Sealers.

Perf. 9887-9909, 9933-35, 9947-52, Treated w/5500 gal. 15% NEA & Ball Sealers

Seating Nipple @ 9981'

Tubing Anchor Catcher 2-7/8 x 5-1/2 set @ 9983, Perf. Nipple @ Mud Anchor @ 10,021' 9985-88.

PBTD 10,101' (Cisco Lime)

7-7/8" Hole to 10,156' (Top of Canyon Dolomite) 5-1/2" 17# K55 & N-80 casing set @ 10,156'. Cemented TD 10,156 w/750 sx 50/50 Poz. C + 2% Gel + 3# KCL and 175 sxClass H + 5# KCL

Proposed Disposal Well Diagram

YATES PETROLEUM CORP.
SWAN "VB" ST. #2
CISCO FORMATION
LEA COUNTY, NEW MEXICO
Spud 2-2-83
T.D. 2-28-83

Compl. 3-24-83

Elev. 4213 G.L. 4229 K.B.

13-3/8" 48# K55 ST&C @ 449'. Cemented w/400 sx Class C w/2% CaCl₂ (circulated to surface) 17-1/2" Hole to 475'

12-1/4" hole to 4192'
8-5/8" 32# J55 ST&C set @ 4192'. Cemented w/2598 sx Class C and "Lite", 5# salt and 2% CaCl₂ (circulated to surface)

Top of Abo @ 7740'
Top of Cement @ 7790'

Top of Wolfcamp @ 9104!

Top of Bough @ 9774'

Squeeze Bough perforations 9793-9952'.

 $5\frac{1}{2}$ " X 2 7/8" annulus loaded with inhibited fresh water

 $2 \, 7/8$ " plastic coated J-55 tubing with Guiberson doublegrip packer at about 10,000'.

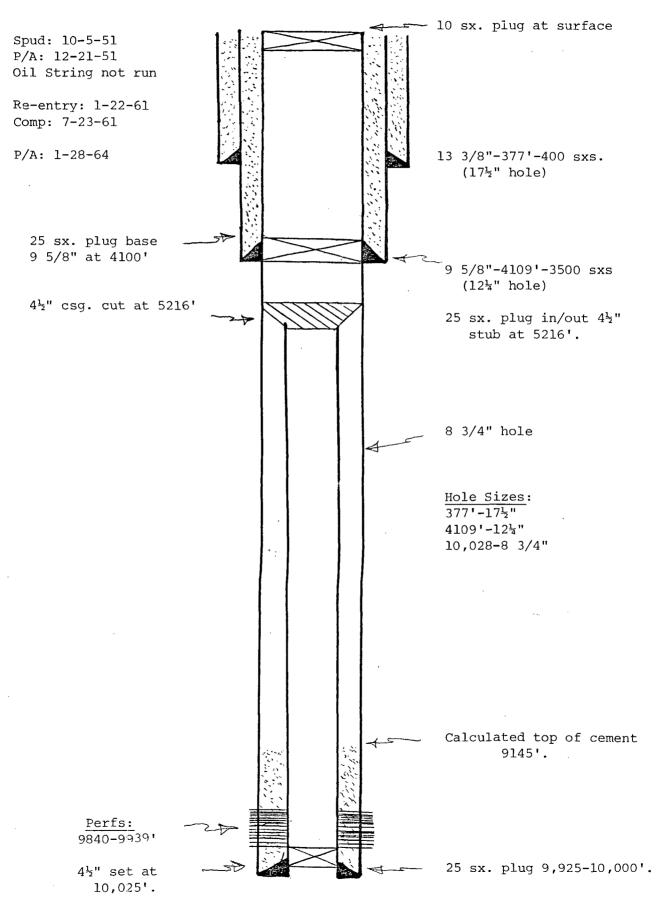
Perforate Cisco- 10071-77' & 10104-36' for injection zone. $5\frac{1}{2}$ " 17# N-80 Casing set at 10,156 cemented with 925 sacks. Deepen from old TD of 10,156 to 10,350.

Estimated top of Canyon at 10,158'.

Open hole completion 10,156-10,350' for injection zone porous dolomite reef.

Old TD 10, 156

New TD 10,350'



TD 10,028'

STATE OF NEW PIGY AND MINERALS		(
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	roleum Cor	poration						2	
dress of Operator							10. F	ield and	Pool, or Wildcat
207 South	4ht St.,	Artesia, NM	88210	-			Saun	ders I	Permo Upper Pe
ocation of Well								TITI	
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8-5/8"	32#	419		12-1/4"		2598			
5-1/2''	17#	101	55'	7-7/8"		925			
	<u> </u>	INTER RECORD			<u> </u>		~	0.0560	
617.5		INER RECORD	Tereke eries		30.	.76	TUBIN		T
SIZE	ТОР	воттом	SACKS CEMEN	IT SCREEN		-7/8"	9982'	5E (PACKER SET
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Perioration Record (Interval, size an	d number)	<u></u>	32.	ACID, SHO	OT, FRAC	TURE, CEME	NT SQU	LEEZE, ETC.
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	" w/15 .40			9887-9	909'				EĄ + balls.
	v/9.40			9933-9					EA + balls.
9793-9854	w/22.40)" holes		9793-9	909'				w/4000g. 15%
				10011011		I N	EA & ball	.s •	
First Production	Produ	iction Method (Flo		ODUCTION	nd type pum	p)	We	Il Status	(Prod. or Shut-in)
3-22-83		13 (1. 10)	Pumpi		,,,			Produ	• •
ol Test	Hows Tested	Choke Size	Prod'n. For	OH - Bbl.	Gas -	- MCF	Water - B		Gas - Oll Rallo
3-24-83	24	Open	Test Period	20		203	605		10150/1
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-inflied or despended well. It shall be accompanied by one copy of all electrical and radio-activity logarum on the well and a summary of all special tests conducted, including driff stem tests. All depths reported shall be measured depths, in the case of directionally driffed 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 fulle 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	Rustler	Southeas	tern	New Mexico		North	vestem N	ew Mexico
т	Anhy	1702	7	Canyon	т	Oio Atamo	Т.	Penn. "B"
	Salt Base	2550	Τ.	Strawn	T.	Kirtland-Fruitland	т.	Penn. "C"
	Salt		т.	Atoka	т.	Pictured Cliffs	Т.	Penn. "D"
-	Yates							Leadville
	7 Rivers		Т.	Devonian	Т.	Menefee	Т	Madison
	Queen							Elbert
	•		Т.	Montoya	τ.	Mancos	т.	McCracken
	San Andres							Ignacio Qtzte
				-				Granite
Т.	Paddock		т.	Ellenburger	т.	Dakota	Т.	
T.	Blinebry		т.	Gr. Wash	т.	Morrison	Т.	
т.	Tubb	7027	Τ.	Granite	T.	Todilto	т.	· · · · · · · · · · · · · · · · · · ·
т.	Drinkard		т.	Delaware Sand	т.	Entrada	т.	
	Abo	7762	. T.	Bone Springs	Т.	Wing ate	Τ.	
T.	Wolfcamp Ls	9112	τ.	XX Marker 93	30_ т.	Chinle	Т.	
T.	Penn		т.	Virgilian 97	11 T.	Permian	T.	
T	Cisco (Bough C)		т.		т.	Penn "A"	Т.	
				OIL OR (GAS S	ANDS OR ZONES		
No.	1, from			_to	No	o. 4, from		to
Nο.	2, from			_to	No	o. 5, from		to
No.	3, from		•	_to	No	o. 6, from		
				• •		•		
				IMPORT	TANT	NATER SANDS		:
Inc	lude data on rate of	water inflo	w 31	ed elevation to which water	rose in l	hole.		
No.	1, from			to		fcct.		
								İ
Νo.	3, from	·····		to		leet.	**********	j
No.	4, from			to		fcct.	************	
				FORMATION RECORD (An				***************************************

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0	650	650	Surface, Redbeds				•
650	1725	1075	Redbeds, Anhydrite	1		1 1	
1,725	3780	2055	Anhydrite, Salt] [
3780	3882	102	Anhydrite		}	1 1	
3882	3971	89	Dolomite]		•
3971	4173	202	Anhydrite		j]]	•
4173	7707	3534	Dolomite	1			
7707	7860	153	Dolomite, Shale				
7860	80.32	172	Shale		1		
8032	8182	150	Lime, Shale				
8182	9284	1102	Dolomite, Shale				• .
9284	9373	89	Lime, Shale))	ļ.	1	
9373	9415	42	Dolomice, Lime, Shale	1	ļ	1 1	
. 9415	10105	690	Lime, Shale				
10105	10155	50	Dolomite, Shale				
•			_		1		· · ·
	}				1		•

HALLIBURTON DIVISION LABORATORY HALLIBURTON SERVICES

MIDLAND DIVISION HOBBS, NEW MEXICO 88240

207 S. 4th Street Artesia, New Mexico ATTN: Mr. Eddie Mahfood Submitted by. Well No. Woodpecker #6 County. Field Colcium (Co) Specific Gravity PH 6.0 Calcium (Co) Sulfates (SO ₄) 2,700 Sulfates (SO ₄) Sulfates (HCO ₃) Sulfates (HCO ₃) Soluble Iron (Fe) Nill Respectfully submitted,	To Yates Petrolew	n Corporation	Date	4-20-83
Artesia, New Mexico ATTN: Mr. Eddie Mahfood Submitted by Well No. Woodpecker #6 County Field Specific Gravity 1.032 pH 6.0 Calcium (Ca) Soluble Iron (Fe) Soluble Iron (Fe) Nill Remarks: *Milligrams per lift ATTN: Mr. Eddie Mahfood Or disclosed without first securing the express written age of laboratory management; It may however, bused in course of regular business operations, bused in course of regular business operations, bused in course of regular business operations and first securing the express written age of laboratory management; It may however, bused in course of regular business operations, and the submitted that the course of regular business operations and the submitted that the course of regular business operations and the submitted that the course of regular business operations and the submitted that the course of regular business operations and result of submitted to any distribution and the submitted transfer of regular business operations to use of regular business operations to use of regular business operations and the submitted transfer of regular busine	207 S. 4th Str	eet	it nor any part thereof i	nor a copy thereof is to be published
ATTN: Mr. Eddie Mahfood Submitted by. Date Rec. 4-19-83 Well No. Woodpecker #6 County. Field. Source. Resistivity 0.190 74°F. Specific Gravity 1.032 pH 6.0 Colcium (Ca) 5,000 * Magnesium (Mg) 1,200 Chlorides (Cl) 23,000 Sulfates (SO ₄) 2,700 Bicarbonates (HCO ₃) 1,220 Soluble Iron (Fe) Nill Remarks: *Milligrams per lift	Artesia, New Me	exico	or disclosed without first of laboratory manageme	securing the express written approval nt; It may however, be used in the
Well No. Woodpecker #6 Depth	ATTN: Mr. Eddie	e Mahfood	and employees thereof r	
County Field Source Resistivity 0.190 ® 74°T.	Submitted by		Date Rec.	4-19-83
Resistivity	Well No. Woodpecker	#6 Depth	Formation	
Specific Gravity 1,032 pH 6,0 Calcium (Ca) 5,000 *Magnesium (Mg) 1,200 Chlorides (Cl) 23,000 Sulfates (SO ₄) 2,700 Bicarbonates (HCO ₃) 1,220 Soluble Iron (Fe) Nil *Remarks: *Milligrams per life	County	Field	Source	
pH	Resistivity	0.190 a 74°F.		
PH	Specific Gravity	1.032		
Magnesium (Mg) 1,200 Chlorides (Cl) 23,000 Sulfates (SO ₄) 2,700 Bicarbonates (HCO ₃) 1,220 Soluble Iron (Fe) Nil Remarks: *Milligrams per lite	pH	6.0		
Magnesium (Mg) 1,200 Chlorides (Cl) 23,000 Sulfates (SO ₄) 2,700 Bicarbonates (HCO ₃) 1,220 Soluble Iron (Fe) Nil Remarks: *Milligrams per lite	Calcium (Ca)	5,000		*MPL
Chlorides (CI) 23,000 Sulfates (SO ₄) 2,700 Bicarbonates (HCO ₃) 1,220 Soluble Iron (Fe) Nil Remarks: *Milligrams per lite				
Bicarbonates (HCO ₃) Soluble Iron (Fe) Nil Remarks: *Milligrams per lite				
Soluble Iron (Fe) Nil Remarks: *Milligrams per life	Sulfates (SO ₄)	2,700		
Remarks: *Milligrams per lite	Bicarbonates (HCO ₃)	1,220		
	Soluble Iron (Fe)	Nil	: 	
	<u></u>	!		The of the Message of the Section 1999
Respectfully submitted,	Remarks:			*Milligrams per liter
Respectfully submitted,			•	
Respectfully submitted,				
		Respectfu	lly submitted,	· · · · · · · · · · · · · · · · · · ·
HALLIBURTON COMPANY Harvey Apple - GeoVann, Inc.	The state of the s		HALLIBURTO	N COMPANY .

NOTICE

NOTICE

NOTICE

UNITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL COLUMN FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

4

HOBBS. NEW MEXICO BA240

HTPANY :	YATES PETROLI	FUM
1 ATE : 11	- 22 - 82	
FIELD, LEA	SEEWELL : WOO!	OPECKER #2.
PAMPLING	POINT: WELLHE	N.D
DATE SAMP	LED : 11-19-8	2

SPECIFIC CRAVITY = 1.014 TOTAL DISSOLVED SOLIDS = 65676 PH = 6.92

		ME/F.	11G / L
CATIONS			
CALCIUM MAGNESTUM SODIUM	(CA) + 2 (MG) + 2 (NA) , CALC	106; 183 859;	2 1 3 7 . 2 2 2 8 . 1 7 7 6 5
VIIIONE .			. , , , , ,
BICARBONATE CARBONATE FYDROXIDE SUPATE HLORIDES DISSOLVED GASES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	1 1 . 8 0 0 3 8 . 1 1 0 9 9	719. 0 0 1833 38991
ARBON DIOXIDE HYDROGEN SULFIDE XYCEN	(COZ) (H2S) (OZ)	.45 30 Not Run	199 511
PROMETOTAL) PARTUM MANGAMESE	(FE) (BA)+2 (MN)	NOT RUN	: 7 6

SCALING INDEX

TEMP

1.1KELY .408 8 4 E 3 0 C

- -27 UNLIKELY

TARBONATE INDEX
CALCIUM CARBONATE SCALING

CULFATE INDEX
CALCIUM SULFATE SCALING

UNICHEM INTERMATIONAL

601 NORTH LEECH

P 0 ROX1499

HORRS, NEW MEXICO BARAO

TPANY: YATES PETROLEUM
TE: 11-22-82
ELD.LEASE&WELL: WOODPECKER #3
MPLING POINT: WELLHEAD
TE SAMPLED: 11-19-82

FROIFIC GRAVITY = 1 018 FTAL DISSOLVED SOLIDS = 27850 = 7.56

CATIONS		MEYL	MC 15
CTUM CHÉSTUM DTUM - ANIQNS	(CA) + 2 (MC) + 2 (NA) , CALC	48.6 39.3 370.	975. 978. 9513.
CARBONATE RHONATE LEGITOE LEATE CRIDES DISSOLVED GASES	(HCO3) - 1 (CO3) - 2 (OH) - 1 (SO1) - 2 (CL) - 1	2 3 4 0 0 2 0 8 2 4 3 5 2	1427 0 0 1758 13477
ROGEN SULFIDE	(CO2) (H2S) (O2)	22 18 NOT RUN	9 . 9 3 0 6
ON(TOTAL) RIUM NCANESE	(FE) (BA)+2 (MN)	NOT RUN NOT RUN	3

SCALING INDEX

TEMP

BBONATE INDEX ICTUM CARBONATE SCALING

LEATE INDEX LCIUM SULFATE SCALING

UNICHEM INTERNATIONAL

601 NORTH LEECH

P . O BOX1499

HOBBS. NEW MEXICO 88240

OMPANY YATES PETROLEUM

STE 11-22-82

ELD.LEASEAWELL SWAN R

AMFLING POINT: WELLHEAD

ATE SAMPLED 11-19-82

FECIFIC GRAVITY = 1.016 OTAL DISSOLVED SOLIDS = 24376

CATIONS		ME/I.	:
ALCIUM ACNESIUM Dium	(CA) + 2	• .	MC/L
ANIONS	(MG) + 2 (NA), CALC,	4 6 1 7 3 0 9	9 2 1 5 7 t
ARBONATE ARB	(HCO3) 1 (CO3) 2 (OH) 1 (SO4) 2 (Cf.) 1	22 q 0 0 72 8	7115 1366 0
DISSOLVED CASES		307	3500
ROCEN SULFIDE	(CO2) (H2S) (O2)	2:	n
ON(TOTAL) RIUM UGANESE	(FE) (BA) 62	NOT RUN	3.0.2
SCALING	(MN)	NOT RUN NOT RUN	2 t

30C 86F 1 11 LIKELY

UNLIKELY

Deviation 2004

HONATE INDEX
TUM CAREONATE SCALING

ATE INDEX
'UM SULFATE SCALING

LIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

W83-335 No.-

To Yates Petroleum	Corporation	Date_	3-16-83	
207 S. 4th Stree	t	it nor any part there	operty of Halliburton Company and neither eof nor a copy thereof is to be published first securing the express written approval	
Artesia, New Mex		of laboratory management; it may however, be used it course of regular business operations by any person or country and employees thereof receiving such report from Hallit Company.		
Submitted by		Date R	ec. 3+;6-83	
Well No. As Marked	Depth	Format	ion	
County	Field	Source		
	Swann #2 3-10-83	Swann #2 3-15-83	Dove #2 3-15-83	
Resistivity	0.227 @ 70°F.	0.157 @ 70°F.	0.155 @ 70°F.	
Specific Gravity	ė.	1.044		
	6.2	5.7	5.8	
	6,000		7,700 *MPL	
Magnesium (Mg)	Nil	Nil	Nil	
Chlorides (Cl)	21,000	35,000	33,000	
Sulfates (SO ₄)	2,450	2,300	2,200	
Bicarbonates (HCO ₃)	1,040		510	
Soluble Iron (Fe)		Nil	Nil	
Remarks:			*Milligrams per liter	
	Respectf	ully submitted,	 .	
alyst: Brewer Harvey Apple - G Box 38	eoVann, Inc.	. HALLIBUR	TON COMPANY	
Artesia, New Mex	ico	Ву	CHEMIST	

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.



HALLIBURTON SERVICES MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No W83-001

ToYates_Petroleum	Corporation	Date 1-1-83			
207 S. 4th Street	at	it not any part mercor nor a copy mercor is to be pobli			
Artesia, New Mex	xico	course of regular passiness of entations by any person of com-			
ATTN: Mr. Eddie	Mahfood	and employees thereof receiving such report from Hallibu Company.			
Submitted by		Dute Rec 1-1-83			
Well No. Dove #1	Depth	Formation.			
County	Field	Source			
Resistivity		7			
Specific Gravity	1.110				
pH	5.3				
Calcium (Ca)					
Magnesium (Mg)	. 000				
Chlorides (CI)					
Sulfates (SO ₄)	800				
Bicarbonates (HCO ₃)	805				
Soluble Iron (Fe)	125				
	-				
Remarks:		*Milligrams per lite			
	Respectfully	submitted .			
Analyst: Thompson	Respectivity	HALLIBURTON COMPANY			

NOTICE

Artesia, New Mexico

MALLIBURTON DIVISION LABORATOR

HALLIBURTON SERVICES MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. <u>W83-195</u>

To Yates Petroleum	Corporation	Date2_14_83
207 S. 4th Stree	t	This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published
Artesia, New Mex	ico	or disclosed without first securing the express written approxi- of laboratory management; it may however, be used in th
ATTN: Mr. Eddie		course of regular business operations by any person or concer and employees thereof receiving such report from Halliburto Company.
Submitted by		Date Rec. 2-14-83
Well No. Hanladdie "WR	R ¹¹ St. #1Depth 9,900 [†]	Formation
County Eddy	Field Saunders	Source
	2011-83	2-12-83
Resistivity	0.082 @ 74°F.	
Specific Gravity		1.104
pH		5.8
Calcium (Ca)		23,200 *MP
Magnesium (Mg)		2,400
Chlorides (CI)		92,000
Sulfates (SO ₄)	1,150	1,200
Bicarbonates (HCO ₃)		1,050
Soluble Iron (Fe)		100
	31.0 @ 60°F.	31.2 @ 00°F.
Remarks:		*Milligrams per liter
		•
	Respectfully	submitted
Analyst: Brewer	kespectfully	HALLIBURTON_COMPANY /
cc:		D. L. J. S.
		By Wa Melwer

NOTICE

DRILL STEM TESTS

Yates Petroleum Corporation
LDM-AMOCO GX State No. 1 (L-45 Lease #)
Section 19-T14S-R33E
Lea County, New Mexico

DST No. 1 - 10052-10168' TO 30", SI 60", OP 60", SI 120". TO w/blow Reop w/blow and died. Recovered: - 700' DM 3100' SW - no gas. Sampler: 1800 cc salt water. Pressures: HP 4828-4786'; IFP 518-1549; ISIP 1679; FFP 1549-1634; FSIP 1677. BHT 146 deg.

DST #2 - 10190-10321' - TO 30", SI 90", OP 120", SI 240". Op w/fair blow, GTS in 18" increased to 50# on 1/4" choke. Reop w/weak blow, 2# on 1/4" choke, decreased to 1/2#. Recovered: 4 BOCM, 12 BO&GCM, 5 BGC sulphur water. Sampler: 1400 cc 0 & G cut water. Pressures: HP 4845-4803; IFP 345-432; ISIP 3655; FFP 432-1079; FSIP 3312.

* DST #3 - 10332-10386' - TO 30", SI 90", TO 30", SI 60". Op w/good blow, 2# on 1/4" choke decreasing. Reop w/weak blow, dead in 15". Recovered: 300' of black mud and water, 8250' of salty sulphur water, no oil or gas. Sampler: 160#, 1900 cc sulphur water, no oil or gas. Pressures: HP 4972 4930' IFP 1036-3655; ISIP 3826; FFP 3655-3826; FSIP 3826.

DST #4 - 12656-830' - TO 30", SI 90", OP 120", SI 180". Op w/weak blow. Reop w/weak blow. No GTS. Recoveree: 1500' WC, 289' GCM. Sampler: No fluid. 540 psi 1.4 cfg. Pressures: HP 6205-6205; IFP no reading. ISIP 909; FFP 909-974; FSIP 1509.

* DST #5 - 10410-450 (Straddle) - TO 30", SI 60", TO 60", SI 90". TO w/strong blow. Reop w/strong blow, 5# on 1/8" choke after 45", decreased to weak blow. Recovered: 1000' WB, sli GC slphur wtr at 7646'. Sampler: 2800 cc sulphur water, 18000 ppm cl. Pressures: HP 5204-5204, IFP 1388-3393, ISIP 3850, FFP 3419-3850, FSIP 3850.

* Proposed injection zone

, NO.

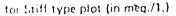
WATER ANALYSIS

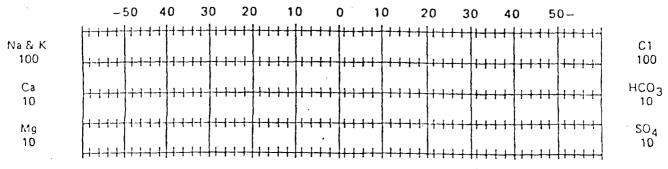
ANAL	YSIS NO

GENERAL INI	FORMATION
OPERATOR YATES	DATE SAMPLED 2/23/83
WELL WATER WHAVEAM	DATE RECEIVED 2/23/53
FIELD (UNIT L) 527-145-R33E	SUBMITTED BY
FORMATION	WORKEDBY King Price
COUNTY L	SAMPLE DESCRIPTION:
STATE Nen Mexico	
DEPTH	*.

PHYSICAL AND CHEMICAL DETERMINATIONS					
SPECIFIC GRAVITY 1.002 AT 72 °F	TOTAL DISSOLVED SOLIDS PPM				
рн 7. 2	RESISTIVITY 19 @ 20 .F PPM				
IRON Newe	SULFATE 100 PPM				
HYDROGEN SULFIDE None	BICARBONATE 422 PPM				
HARDNESS 440	CHLORIDE 50 PPM				
CALCIUM 80	SODIUM CHLORIDE 82 PPM				
MAGNESIUM 58 PPM	SODIUM PPM				
SODIUM & POTASSIUM 40 PPM	POTASSIUM PPM				
PHOSPHATE					

REMARKS:





" * THIS WELL IS OUTSIDE (1/2 MILE) AREA RELIEW.

Form C-103 (Revised 3-55)

*NEW MEXICO OIL CONSERVATION COMMISSION MISCELLANEOUS REPORTS ON WELLS

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

COMPANY CO:	sden petroleum corpo	RATION, BOX 13	11, Big Spring	, Texas
	(Addre	ess)		
LEASE State "R"	WELL NO.	1 UNIT M	s 21 T	-14-s _R 33-E
DATE WORK PERFORM	1ED February 4, 196	52 POOL	Undesignated	
This is a Report of: (Ch	neck appropriate blo	ock) XX Re	sults of Test	of Casing Shut-off
Beginning Drill	ing Operations	Re	medial Work	
Plugging			her	
rugging	the second	[]Ot	·	
Detailed account of work	k done, nature and	quantity of mat	erials used an	nd results obtained.
T.D. 4,179'		r		
Ran 8-5/8" 24# & 32	# J-55, 8 Rd ST&C R-	-2 casing set a	t 4,179'	
To WOC 36 hrs and di	; j	e e	<u>Y</u>	
Original Well Data:	·		_	
DF Elev. TD	PBD	Prod. Int.		ol Date
	DepthOil	String Dia	Oil Stri	ng Depth
Perf Interval (s)	- I - T	~ F '	.\	
Open Hole Interval	Producin	ig rormation (s	>/	
RESULTS OF WORKOVI	ER:		BEFORE	AFTER
Date of Test :				
Oil Production, bbls. pe	er day			***************************************
Gas Production, Mcf pe	r day			
Water Production, bbls.				
Gas-Oil Ratio, cu. ft. p	-			
Gas Well Potential, Mcf	f per day			
Witnessed by				
			(Com	pany)

Begin	nning Drilling Operations	R	emedial Work	and the second s
Plugg	;ing	<u> </u>	ther	
T.D. 4,179 Ran 8-5/89	" 24# & 32# J-55, 8 Rd ST&	C R-2 casing set	et 4,179°	
P.D. @ 12	w/ 1600 sx Incor Poznix / ::15 A.M. Feb. 4, 1962. sing w/ 1,000 psi for 30 m		ncor Neat cement	t. Cement circula
	hrs and drill ahead.			
		•		
FILL IN BELO	OW FOR REMEDIAL WOR	K REPORTS ON		
Original Well			- 	
OF Elev.	TD PBD	Prod. Int.	Comp	l Date
Tbng. Dia	Thng Depth	Oil String Dia	Oil Strir	ng Depth
Perf Interval	· · · · · · · · · · · · · · · · · · ·			
Open Hole Inte	er-val Produ	ucing Formation ((s)	
RESULTS OF	WORKOVER:		BEFORE	AFTER
				- ·
Date of Test	1.11			
	n, bbls. per day			
	on, Mcf per day			
	tion, bbls. per day	2.3		
Gas-Oil Ratio	o, cu. ft. per bbl.			
	ential, Mcf per day			
Gas Well Pote Witnessed by_		•	Come	pany)
Witnessed by_	SERVATION COMMISSION	Vi ,	(Comp ify that the info	rmation given
Witnessed by_	SERVATION COMMISSION	above is true	ify that the info and complete t	rmation given
OIL CONS	SERVATION COMMISSION	Vi ,	ify that the info and complete t	rmation given
Witnessed by_	SERVATION COMMISSION	above is true my knowledge Name	ify that the info and complete t	rmation given to the best of

T Degin	ining Drilling Ope	: Lations		emedial work	
Plugg	ging			Other	
Detailed accou	ant of work done,	nature an	d quantity of ma	aterials used ar	nd results obtained
Spudded 12	:30 Pi 1-26-62	·			
T.D. 3561	- Set 13-3/8" 48#	H-40 Casir	ng at 310'		
	/ 325 8x Incor New AM 1-27-62	at Cement.		ted	•
Tested cas	ing w/ 600 psi for	r 30 minute	es. test o.k.		
Drilling a	head				
		,			
FILL IN BELO	OW FOR REMEDI	AL WORK	REPORTS ON	LY	
Original Well					
DF Elev.	TD P	BD	Prod. Int.	Comp	l Date
Tbng. Dia	Thng Depth		Dil String Dia	Oil Stri	ng Depth
Perf Interval	(s)				
Open Hole Inte	erval	Produc	ing Formation	(s)	
RESULTS OF	WORKOVER:			BEFORE	AFTER
Date of Test					
Oil Production	ı, bbls. per day				
Gas Productio	n, Mcf per day		•		
	tion, bbls. per da	av ,			
	, cu. ft. per bbl.	-			
	ntial, Mcf per da		·		·
Witnessed by	•	•			
· _				(Comp	pany)
OIL CONS	SERVATION COM	MISSION	•	ify that the info	_
		7	my knowledge	and complete t	othe best of
Name Jask	0 11- Clan	nents	Name	Jusel	H.L. Week
Title			Position Sup	t. of Production	
Date	3		Company c	OSDEN PETROLEUM	CORPORATION

NEW I TCO OIL CONSERVATION COMM ON Santa Fe, New Mexico

Form C-101 Revised (12/1/55)

NOTICE OF INTENTION TO DRILL

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in QUINTUPLICATE. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

If State Land submit 6 Copies Attach Form C- 128 in triplicate to first 3 copies of form C-101

NTA FE, I	hereby S	IEXICO	that it is our	intention to commence the Cosden Petrole (Company	um Corporatio	(Date)		
NTA FE, Intlemen: You are	hereby S	IEXICO	that it is our	Cosden Petrole (Company	um Corporatio	be known as		
You are	hereby S	notified	that it is our	Cosden Petrole (Company	um Corporatio	be known as		
atcd	ន 660 ម	tate		Cosden Petrole (Company	um Corporatio	be known as		
······	60 H		(1.08.20)			/ 4.8		
······	60 H		(Lease)		-	, in M	2	The wel
······	Ħ	fc						
IVE LOC		est	et from the	South	21 _ 14-	line and		feet from
TVE LOC					•	Lea .	-	
	ATION	FROM	SECTION L		· ·	E-6475		
1	·			If patented land the ov	vner is	······································	***************************************	
D	С	В	A	Address		· · · · · · · · · · · · · · · · · · ·	·	•
				We propose to drill wel	l with drilling equipmer	nt as follows: Adequ	ate Ro	tery
E	F	-G	н		rilling equip	ment	. 	
E	r		n	The status of plugging		effect		
ľ	ĸ	J	ı	Drilling Contractor				
		J		=				
M	N	Ο	P	4.3		nnsylvanian		
			1			10,200		
We pror	ose to u	the fo	 ollowing string		PROGRAM			• •
Size of			Size of Casing	Weight per Foot	New or Second Hand	Depth	Sack	u Cement
17-1/4	<u>, 11</u>	1	13-3/8 0	D 48	Nev	300	Appro	x. 275
11			8-5/8 0		New	Approx 4200	**	1500
7-7/8	3 88		5-1/2 0	D 15.5 - 17	New	T.D.		300
	=		-	advisable we will notify yo	ou immediately.			
		7						
pprov e d				19	Sincerely yours,			
xcept as fo		1,11.51	IF JUNCOU	MANUEL CENTRAL	Cospei	PETROLEUM CO	RPORAT	ION
	,	13	3/8	DASING.	Ву	(Company or Operator		.L. We
			VATION CO		Position C.	pt. of Produc	+400	

Name Cosden Petroleum Corporation

Address Box 1311. Big Snring

FORM C-128 Revised 5/1/57

HEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

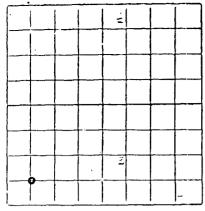
	SEE INS	TRUCTIONS F	OR COMPLET	ING THIS FO	ORM ON	THE REV	ERSE SIDE	· · · · · · · · · · · · · · · · · · ·
	· -	. **	S E C	TION A				· 100
Operator					Well No.			
	PETROLEUM C	· · · · · · · · · · · · · · · · · · ·			TE "E			1
Unit Letter	Section '	Township	1	Range		County		
R M	21	14 South	н	33 EAST			LEA COU	NIY
Actual Footage Lo	feet from the	South	line and	660	f f	rom the	WEST	line
660 Ground Level Elev			I Poo					Dedicated Acreage:
42101	1	ylvanian		Saund	ers			40 Acres
who has the rig mother. (65– 2. If the answer t	gbt to drill into and 3–29 (e) NMSA 19	d to produce from 35 Comp.) 'tio,'' have the	any pool and	to appropria	<i>te the pr</i>	oduction e	ither for hin	
3. If the snawer t	o question two is '	'no," list all th	e owners and	heir respecti	ve intere	sts below	:	
Owner			25325	Land D	escripcio	×		
						<u> </u>	.	
								G .
		SECTION	i B ,				7	CERTIFICATION
							in SECT plete to the belief of	CERTIFICATION certify that the information ON A above is true and com- the best of my knowledge and Weeks Production N PETROLEUM CORE usty 15, 1962 certify that the well location the plat in SECTION B was from field notes of actual made by me or under my on, and that the same is true cet to the best of my knowled f.
660	HIGHER "K" NO SE & SI	THE LOCATI THAN THE A 1. 1, LOCATI E 2 OF SEC. TH, RANGE	MERADA ST ED IN THE 29, Towns	ATE HIP	,099	-660'-	Date Sur-	

NEW MEXICO OIL CONSERVATION COMMISSION MISCELLANEOUS REPORTS ON WELLS

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

COMPANY	COSDEN PETRO	LEUM CORPORA	TION,	Box 1311,	Big	Spring	, Tex	as ·		
		(Ac	ldress	;)						
LEASE St	tate "E"	WELL NO.	1	UNIT M	S	21	Т	148	_ R_	33E
DATE WORK	CPERFORMED_	3-6-62		POOL	Un	design	ated			
This is a Re	port of: (Check	appropriate	block	:) XX	Resu	lts of	 Test	of Ca	sing	Shut-off
Beg	ginning Drilling (Operations			Rem	edial V	Vork			
F	gging			·	Othe					
[]F1u	ggrug			لـــا	Otne.	r		<u> </u>		
Detailed acc	ount of work don	e, nature a	nd qua	intity of n	nater	ials us	ed a	nd res	ults	obtaine
T.D. 10,03	30 °									
Cmt v Plug	329 Jts 5-1/2" 17 w/ <u>3</u> 00 sx Slo-set down at 11:35 A. C. 24 hrs - teste	# 2% Ge1 M. 3-6-62		_				.g. 00		20,000
To L	og and Perforate									
	-		; ,							
	LOW FOR REME	DIAL WOR	KREI	PORTS OF	4LA					
Original Wel DF Elev.	TD	PBD	p	rod. Int.			Com	pl Date	a	
Tbng. Dia	Tbng Deptl			ring Dia			•	ing De		
Perf Interva			-	, •	,			Ü	•	
Open Hole In	nterval	Produ	icing I	Formation	ı (s)_					
RESULTS O	F WORKOVER:				В	EFOR.	E	A.	FTE	R
Date of Test	; 4									
Oil Producti	on, bbls. per da	y					_			
Gas Product	tion, Mcf per day	y					_			
Water Produ	iction, bbls, per	day					_			
	io, cu. ft. per b						-			
Gas Well Po	tential, Mcf per	day					_			
Witnessed by	у .									
	-					(Com	pany)		

Plugging	[] _{O+}	ther	
Detailed account of work done, nature	and quantity of ma	terials used an	nd results obtaine
T.D. 10,030'	·		
•			
Ran 329 Jts 5-1/2" 179 J-55 & N- Cmt w/ 300 sx Slo-set / 2% Gel Plug down at 11:35 A.M. 3-6-62 W.O.C. 24 hrs - tested csg w/ 1	_		ng. Set et 10,030
To Log and Perforate			·
	·		
		•	
FILL IN BELOW FOR REMEDIAL WOL	KK REPORTS ONL	<u>-</u> Y	
Original Well Data:	e e e e e e e e e e e e e e e e e e e	~	J Data
DF Elev. TD PBD Thng Depth			
Thing. Dia Thing Depth The Depth The Thing Dep	Oil String Dia	Oil Stri	ing Deptn
Perf Interval (s)	lunia = P		
Open Hole Interval Prod	ducing Formation ((s)	
RESULTS OF WORKOVER:		BEFORE	AFTER
Date of Test			
Oil Production, bbls. per day			
Gas Production, Mcf per day			
Water Production, bbls. per day	? <u>`</u>		
Gas Oil Ratio, cu. ft. per bbl.			
Gas Well Potential, Mcf per day			
Witnessed by			
		(Com	
		ify that the info	ormation given
OIL CONSERVATION COMMISSION		1	to the Dest Of
OIL CONSERVATION COMMISSION	my knowledge	:- /)
Name ///	my knowledge Name	Llevel	H.L. Wee
	my knowledge	Supt. of Produ	



AREA 640 ACRES LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

M 23

cement circulated

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

	COSDEN P	ETROLEUM C	orporation	***************************************		State I	
Well No	,		of SW 1/2	4, of Sec21	, т	4-5	33-8 , NMPM.
	Unde	signated		Pool,	Lea		County.
				-			West
of Section	21		and the Oil and	Gas Lease No.	is		<u> </u>
Drilling Com	menced	1-26	, 1	9.62 Drillin	g was Completed	3-3	, 19 62
Name of Dri	lling Contractor		Brant	ly Drillin	g Co., Inc.		
Address	P. O. E	ox 4935, M	idland, Te	xas		·	
Elevation abo		p of Tubing He	ad				to be kept confidential until
			OIL	SANDS OR Z	ONES		
No. 1. from	9,830	to	9,915	No. 4	from	.	0
•							0
No. 3, from		to			, from	t	o
	•	<i>13</i>					-
				TANT WATER			
	on rate of water						
•							
No. 2, from			to			feet	
No. 3, from			to	·····		feet.	,
No. 4, from			to			feet.	<u> </u>
			C	CASING RECO	ВD		
	WEIGHT	NEW OR		KIND OF	CUT AND	_	
SIZE	PER POOT	USED	AMOUNT	SHOE	PULLED FROM	PERPORATION	8 PURPOSE
13-3/8	48-7	New	310	T.P.			Surface
8-5/8	32/ - 24/		4179	Guide		-	Intermediate
5-1/2	17#	New & Use	<u>d 10,030</u>	Gwide	-	9836 to 10	000 Production
		1	MUDDING	AND CEMERT	ING RECORD	,	
					ING RECORD		
SIZE OF HOLE	SIZE OF CASING		NO. SACKS IF CEMENT	METHOD USED		MUD RAVITY	AMOUNT OF MUD USED

pump & plug

Diano & nine

325

1800

310

4179

8-5/8

lling Commence ne of Drilling C	d	If State La		line and	660	£	_	7 A
illing Commence	d	126	and the Oil a					
me of Drilling C	Contractor							
dress				19 52 Drilling	was Completed.	3-3		, 19 62
			Bran	tly Drilling	Co., Inc.			
	P. U. BC				-			
								kept confidential unt
•								
					v.		,	
•	000			IL SANDS OR ZO				
•			•					
. 3, from	······	to	••••••••	No. 6,	from		to	
			IMPO	RTANT WATER	SANDS			
clude data on ra	te of water i	inflow and elevat		water rose in hole				
					_	feet	************	
-								
•								
,								:
o. 4, from	·····y······		to			teet	•••••••••	
				CASING RECO	BD			
CITY	WEIGHT PER FOOT	NEW OR USED	AMOTEN	KIND OF	CUT AND	ner To D	. Tions	
			AMOUNT	вное	PULLED FROM	PERFOR	ATIONS	PURPOSE
13-3/8 8-5/8 3	48# 2# - 24#	Now New	310 4179	T.P. Guida	-		. \	Surface Intermediate
5-1/2	17#	New & Used		Guide		9836 to	10.000	Production
		<u> </u>		<u> </u>				
			MUDDING	AND CEMENT	ርህር ጀድርስዊክ		-	
SIZE OF SIZE	OF B	HERE N	o. sacks	METHOD	RECORD	MTIP		AMOUNT
HOLE CAS			CEMENT	USED	G	MUD RAVITY		AMOUNT OF MUD USED
17-1/2 13-		310	325	pump & plug			1	nt circulated
		4179 ,030	180 0 300	pump & plug pump & plug			селе	nt_circulated_
				pulp a pra	• — — — —			<u> </u>

NEW MEXICO OIL CONSERVATION COMMISSION ANTA FE, NEW MEXICO

Form C-110 Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator COSDEN PETROLEUM CORPORATION	Lease State "E"
Well No. 1 Unit Letter MS 21 T 16-SR 33-F	Pool Undesignated
County Lea Kind of Lease (State, Fed	l. or Patented) State
If well produces oil or condensate, give location of tanks	s:Unit M S 21 T 14.5 R 33.E
Authorized Transporter of Oil or Condensate Indiana	
Address Box 1725, Midland, Texas	
Address Box 1725, Midland, Texas (Give address to which approved copy of this	s form is to be sent)
Authorized Transporter of Gas Werren Potr	olem Comparation
Address Eox 1589, Tules 2, Oklehons (Give address to which approved copy of this	ordan ourporation
(Give address to which approved copy of this	s, form is to be sent)
If Gas is not being sold, give reasons and also explain it	s present disposition:
Reasons for Filing:(Please check proper box) New W	ell
Change in Transporter of (Check One): Oil () Dry Gas	
Change in Ownership () Other Remarks:	
Remarks:	(Give explanation below)
	r de la companya de
·	
The undersigned certifies that the Rules and Regulations	of the Oil Conservation Com-
mission have been complied with.	
Executed this the day of 19	. ·
Executed this the 2 day of July 19 62	
By //	luce ().
<u> </u>	H. J. Heeks
Approved 19 Title c:	Pt. of Production
OIL CONSERVATION COMMISSION Compan	OSDEN PETROLEUM CORPORATION
By Mcenty Address	S Doz 1311, Dig Spring, Texas
Title	

NEW MEX'TO OIL CONSERVATION COMM'SSION LANTA FE, NEW MEXICO

Form C-110 Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

HOUSE OFFICE OCC

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS 5 41 8:32

Company o	r Opera	tor COSDEN	PETROLEUM CO	RPORATION	Lease_Sta	ate 'E"
Well No	ļ	_Unit Letter	M S 21 T	14-SR 33-E	Pool Undesign	ated
County	Le	: a	Kind of Lease	(State, Fed	d. or Patented)	State
If well prod	duces oi	l or condensa	ite, give loca	tion of tank	s:Unit M S	21 T 14-S R 33-E
Authorized	Transp	orter of Oil o	or Condensate	e Indiana	Oil Purchasing	Company
Address		Box 1725,	Midland, Texa	.8		O.
.,	(Give	address to wh	nich approved	copy of thi	s form is to be	sent)
					coleum Corporatio	
		ж 1589, Tulsa				
					s form is to be	sent)
lf Gas is no	ot being	sold, give re	easons and al	so explain i	ts present dispo	sition:
	•					
	,					
Reasons fo	r Filing	:(Please chec	k proper box) New W	/ell	(XX)
Change in '	Transpo	- rter of (Checl	k One): Oil () Dry Gas	() C'head ('	Condensate ()
6	1	• • •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	, , , , , , ,	, condendate (,
Change in (Ownersh	nip	. () Other		()
Remarks:					(Give explanat	ion below)
	£	÷ ;	=			
	•	• •				
The unders	igned c	ertifies that t	he Rules and	Regulations	s of the Oil Cons	servation Com-
		complied wit		Ü		
	•					
Executed th	his the_	day_of	July	19 62		
		•		†		
	_			Ву	lwink	H.L. Week
_						
Approved			19	Title_s	upt, of Producti	.03
Ort			ANTICCION	G		
OIL (CONSEL	EVATION COI	MINI2210IN	Compa	ny COSDEN PETR	COLEUM CORPORATION
By Aca	6.	1- (len	r The	Addres	S = 12	
1-11-1		· · · · · · · · · · · · · · · · · · ·			S Rox 1311, P	ig Spring, Texas
Title		•				

NEW MFXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

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

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well

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

ned into t	ne stock tank	s. Vas mus	Big Spring, Texas May 2	9, 1962
	· · · · · · · · · · · · · · · · · · ·		(Place)	(Date)
			ING AN ALLOWABLE FOR A WELL KNOWN AS:	
COSDE	N PETROLEU Ompany or Ope	M CORPO	ORATION STATE "E", Well No. 1, in SW	
M	Sec	21	, T14-S, R33-E, NMPM.,	Pool
(int L	P4147			
Lea			County. Date Spudded 1-26-62 Pate Drilling Completed	
Plea	se indicate lo	exation:	Elevation 4221 Total Depth 10,030 FBTD 10	
D	C B	A	Top Oil/Gas Pay 9,925 Name of Frod. Form. Penn.	
			PRODUCING INTERVAL -	
			Perforations 9925-35; 9950-52; 9972-80; 9994-10,000	
E	F G.	H	Depth Depth Depth Open Hole Casing Shoe 10,030 Tubing 9,0	900
			OIL WELL TEST -	
L	K J	I		Choke
			Natural Prod. Test:bbls.oil,btls water inhrs,	min. Size
			Test After Acid or Fracture Treatment (after recovery of volume of oil equal	to volume of
M	N O	P	load oil used): 20 bbls,oil, 95 bbls water in 24 hrs, 0 mi	Choke n. Size
0			GAS WELL TEST -	
				
			Natural Prod. Test: MCF/Day; Hours flowed Choke Siz	
Tubing ,Ca: Size	sing and Cemer		Method of Testing (pitot, back pressure, etc.):	
5176	Feet	Sax	Test After Acid or Fracture Treatment: MCF/Day; Hours flo	wed
13-3/8	310-	325	Chake SizeMethod of Testing:	
13-3/0	310	323		·
8-5/8	4179	1800	Acid or Fracture Treatment (Give amounts of materials used, such as acid, water	er, oil, and
			sand): 500 gal mud acid	
5-1/2	10,030	300	Casing Tubing Date first new Press. Press. oil run to tanks May 14, 1962	
			Cil Transporter Unknown at this time - will notify	
2-1/2	9,900	-0-	Gas Transporter Warren Petroleum Cornoration	
' }emarks:				
	`		The second of the second the second	
		• • • • • • • • • • • • • • • • • • • •		
		• • • • • • • • • • • • • • • • • • • •		
I here	by certify tha	it the info	ormation given above is true and complete to the best of my knowledge.	
.pproved			, 19 COSDEN PETROLEUM CORPORATION	
			(Company or Operator)	
0	IL CONSER	VATION	,	. H.L. Week
	6,	1/	(Signature)	, 4. T
y: As	she A	/ - (<u></u>	Circula Title Supt. of Production	
			Send Communications regarding well	to:
itle		•••••	Name Cosden Petroleum Corporatio	מיני
	-		Name Name Tottoteom Corporation	/M

Address....P. O. Box 1311, Big Spring, Texas

NEW MEY TO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Form C-110 Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

1282 / 199 / 127 | 181 | 2 | 45

Company or Operator COSDEN PETROLEUM CORPORA	TION Lease STATE E
1 TY 12 TY 1	*/C D 20m D Coundary (Borno-Bonn)
Well No. 1 3 Unit Letter M S 21 T	145 R 33E Pool Sauders (Fermo-Ferm)
County Lea County, New Mexico Kind of Lease	(State, Fed. or Patented) State
If well produces oil or condensate, give locat	ion of tanks: Unit M S 21 T 148 R 33E
Authorized Transporter of Oil or Condensate	Indiana Oil Purchasing Company
1705 N. 3705 N. 3705 March	the first of the second second
Address Box 1725, Midland, Texas (Give address to which approved	conv of this form is to be sent)
· · · · · · · · · · · · · · · · · · ·	-//
Authorized Transporter of Gas Warren Petr Address Box 1589, TULSA 2, Oklahoma	Corporation //www.
(Give address to which approved	copy of this form is to be sent)
If Gas is not being sold, give reasons and als	• •
·	
Reasons for Filing:(Please check proper box)	New Well ()
Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()
Change in Ownership ()	Other POX)
Remarks:	(Give explanation below)
Well placed in pool.	
weir praced in pool.	
The undersigned certifies that the Rules and I mission have been complied with.	Regulations of the Oil Conservation Com-
Executed this the 24 day of August	19_62_
- ·	By H. L. Weeks
Approved 19	Title Supt. of Production
OIL CONSERVATION COMMISSION	Company COSDEN PETROLEUM CORPORATION
Ву	Address Box 1311
Title -	Big Spring, Texas

NEW MEXICO OIL CONSERVATION COMMISSION CANTA FE, NEW MEXICO

Form C-110 Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

		•			•
Company or Ope	rator American Pet	rofina Company	y of Texas	Lease	State E
Well No. 1	Unit Letter 1	S 21 T 10	4s R 33E P	oolSaunder	s Permo-Penn
County Lea	Kii	nd of Lease (S	tate, Fed. c	or Patented)	State
If well produces	oil or condensate	, give locatio	n of tanks:U	nit <u>M</u> S 21	T 145 K 33E
Authorized Tran	sporter of Oil or	Condensate	Indiana Oil I	Purchasing Co	<u>.</u>
Address		Box 172	5, Midland, T	Гехав	
(Giv	e address to whic	h approved co	py of this fo	rm is to be	sent)
	sporter of Gas				
Address					
	e address to whicng sold, give reas		- /		•
Reasons for Fili	ng:(Please check	proper box)	New Well		(·)
Change in Trans	porter of (Check (One): Oil ()	Dry Gas () C'head ()	Condensate ()
Change in Owner	ship	(_x)	Other		()
Remarks:	1		\G	live explanat	ion below)
-		2.5			
	•			-	
	certifies that the en complied with.	Rules and Re	gulations of	the Oil Cons	servation Com-
Executed this the	eday of	May 19	63		
-			By J. m	Thomas	L.M.Thompson
Approved		19	Title Agent	<u> </u>	
OIL CONS	ERVATION COMM	MISSION	Company 1	American Petr	ofina Company of Tex
Ву	7		Address Bo	ox 1311	
Title/_	··		В:	ig Spring, Te	exas

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBES OFFICE C. C. C.

MISCELLANEOUS NOTICES AUG 23 10 40 111 161 Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Pules and Regulations of the Commission

		Indicate Nature of Notice	by Checking Below	
Notice of Intention to Change Plans		Notice of Intention to Temporarily Abandon W		of Intention L Deeper
Notice of Intention to Plug Well	XXX	Notice of Intention to Plug Back	NOTICE TO SET	of Intention Liner
Notice of Intention To Squeeze		Notice of Intention to Acidize		OF INTENTION OT (Nitro)
Notice of Intention to Gun Perforate		Notice of Intention (Other)	Nотіся (Отня	of Intration
OIL CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CONSERVATION CON		Big Spr.	ng, Texas	August 24, 1964
Gentlemen:			• •	
				Petrofina Company of Texas
, (Com	ipany or Operato	State	KWell No.	I in H (Unit)
SN 1/4 SV 1/4 (40-acre Bubdivision)	of Sec21	T 14-8 , R 3	B-B NMPM, Saume	iera (Permo-Penn) Pool
Lea			:	•
		V INSTRUCTIONS IN THE		IONS)
eing shut in the pr Load hale with mu Spot 25 sacks reg Spot. 25 sacks re	in in May roduction id. Spot gular comegular com	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately sent at approx. 5600	RULES AND REGULAT By abandoned in August of oil per month. The ment at PETD of 10 and cut 5-10 at the top of the second cut 5-10 at the second cut 5-10 at the second cut 5-10 at the top of the second cut 5-10 at the second	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
cing shut in the pre- Load hale with mu Spot 25 sacks rep Spot. 25 sacks rep Spot 25 sacks rep intermediate ca	in in May roduction id. Spot rular com- gular com- gular com- gular com- maing.	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately	RULES AND REGULAT iy abandoned in Au of oil per month, ment at PETD of 10 8,000 and cut 5-1 i at the top of the	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
Load hale with me Spot 25 sacks reg Spot. 25 sacks reg Spot 25 sacks reg intermediate ca	in in May roduction id. Spot rular com- gular com- gular com- gular com- maing.	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250	RULES AND REGULAT iy abandoned in Au of oil per month, ment at PETD of 10 8,000 and cut 5-1 i at the top of the	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
Load hale with me Spot 25 sacks reg Spot. 25 sacks reg Spot 25 sacks reg intermediate ca	in in May roduction id. Spot rular com- gular com- gular com- gular com- maing.	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250	RULES AND REGULAT iy abandoned in Au of oil per month, ment at PETD of 10 8,000 and cut 5-1 i at the top of the	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
cing shut in the pre- Load hale with mu Spot 25 sacks rep Spot. 25 sacks rep Spot 25 sacks rep intermediate ca	in in May roduction id. Spot rular com- gular com- gular com- gular com- maing.	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250	RULES AND REGULAT iy abandoned in Au of oil per month, ment at PETD of 10 8,000 and cut 5-1 i at the top of the	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
Load hale with mu Spot 25 sacks reg Spot 25 sacks reg Spot 25 sacks reg intermediate ca Set 10 sacks regular	in in May coduction id. Spot pular compular comp	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250	AMERICAN PETROFINE	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation. bottom of 8-5/8"
Load hale with mu Spot 25 sacks reg Spot. 25 sacks reg Spot 25 sacks reg intermediate of Set 10 sacks regular	in in May coduction id. Spot pular compular comp	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250	AMERICAN PETROFIN	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation.
Load hale with mu Spot 25 sacks reg Spot. 25 sacks reg Spot 25 sacks reg intermediate of Set 10 sacks regularity as follows:	in in May roduction id. Spot rular compular comp	1963, and temporari was only 49-50 bblo 25 seeks regular co ent at approximately ment at approx. 5600 ent at approx. 4250 ent at surface with a	AMERICAN PETROFINAL Comp.	igust 1963. Prior to 0,010°. 1/2" casing at this depth. ne Glorieta formation. bottom of 8-5/8"
Load hale with mu Spot 25 sacks reg Spot. 25 sacks reg Spot 25 sacks reg intermediate ca Set 10 sacks regular Approved	in in May roduction id. Spot rular compular comp	1963, and temporari was only 49-50 bblo 25 sacks regular co ent at approximately ment at approx. 5500 ent at approx. 4250 nt at surface with a	AMERICAN PETROFINAL Comp.	igust 1963. Prior to 2,010°. 1/2" casing at this depth. ne Glorieta formation. bottom of 8-5/8" COMPANY OF TEXAS any or Operator J. M. Danso Engineer ations regarding well to:

MOMBER SI CONIC			
(21.3	THING: LON		
SANT PER I			
FILE	-1		
U. S. G. S.	7,		
LAND OFFICE			
	OIL	1	
TRANSPORTER	GAS	l	
PHORATION OFFIC	E		

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103 (Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

Name of Company				Addre				
American Petro	fina Com			Bo			ring, Texas	•
Lease Etste "E"	-		Well No.	Jnit Letter	Section 21	Township	R	lange 33-E
Pate Work Performed 9-16-64 - 9-24-5		ool Saunders	(Permo-Per	m)		County		
······································			A REPORT O					
Beginning Drilling	Operations	Ca	sing Test and	Cement Jo	b [Other (E	xplain);	
Plugging		☐ Re	medial Work					
etailed account of work	done, natu	re and quantity	of materials.us	sed, and re	sults obta	ined.		
Set 25 Shot p Pulled Set 25 Set 25 Set 25	sack place of the sack place o	le with mud lug @ 9,999 975 (wireli lug @ 7960 lug @ 6432 lug @ 5591 lug @ 4210 lug @ surfa	(G.L.) (G.L.) (G.L.) (G.L.) (G.L.)	-	rker •	9-24-64.		
Vitnessed by			Position			Company		
v. J.	Priebe		Donal &		1	A		
								Co. of Texas
			LOW FOR RE	MEDIAL				Co. of Texas
) F Elev.	T D		LOW FOR RE				NLY	Co. of Texas Completion Date
	T D	FILL IN BE	LOW FOR RE	MEDIAL AL WELL	DATA	Producing	Interval	Completion Date
	T D		LOW FOR RE	MEDIAL AL WELL		Producing	NLY	Completion Date
ubing Diameter	T D	FILL IN BE	LOW FOR RE	MEDIAL AL WELL	DATA	Producing	Interval	Completion Date
ubing Diameter Perforated Interval(s)	T D	FILL IN BE	LOW FOR RE	MEDIAL AL WELL Oil Str	DATA	Producing Preducing	Interval	Completion Date
ubing Diameter Perforated Interval(s)	T D	FILL IN BE	PBTD	MEDIAL AL WELL Oil Str	ing Diame	Producing Preducing	Interval	Completion Date
Perforated Interval(s) Open Hole Interval	Т D	FILL IN BE	PBTD RESULTS	MEDIAL AL WELL Oil Str	ing Diame	Producing Preducing	Interval Oil String	Completion Date Depth
Perforated Interval(s) Open Hole Interval Test Date Test Test Test Test Date	T D	FILL IN BE	RESULTS	Oil Str	ing Diame	Producing Producing	Interval	Completion Date Depth Gas Well Potentia
Perforated Interval(s) Open Hole Interval Date	T D	FILL IN BE ubing Depth Oil Production	RESULTS	Oil Str Production	ing Diame	Producing eter ation(s)	Oil String GOR	Completion Date Depth Gas Well Potentia
Den Hole Interval Test Defore	T D	FILL IN BE ubing Depth Oil Production	RESULTS	Oil Str Production	ing Diame	Producing eter ation(s)	Oil String GOR	Completion Date Depth Gas Well Potentia
Test Date Before Workover Tubing Diameter Derival Date Test After Workover	T D	FILL IN BE ubing Depth Oil Production	RESULTS Gas Pr MC	Production FPD	ing Diame	Producing Producing ation(s) Production	Oil String GOR Cubic feet/Bb	Completion Date Depth Gas Well Potentia MCFPD
Test Date Test Test Before Workover After Workover Approved by	T D	FILL IN BE ubing Depth Oil Production BPD	RESULTS Gas Pr MC	Production FPD I be to the Name	ing Diame	Producing Producing ation(s) Production BPD	Oil String GOR Cubic feet/Bb	Completion Date Depth Gas Well Potentia MCFPD above is true and completion
Test Date Before Workover OIL CO	T D	FILL IN BE ubing Depth Oil Production BPD	RESULTS Gas Pr MC	Production FPD I be to the Name	ing Diame	Producing Producing etter ation(s) Production BPD fy that the in my knowledge	Oil String GOR Cubic feet/Bb	Completion Date Depth Gas Well Potentia MCFPD above is true and compl

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103

MISCELLANEOUS REPORTS ON WELLS

	(Submit to approp	riate Distri	ict Off	ice as	per Com	Mission Ru	le 1106) 51		,g _f i	
Name of Compa	any				Address						
	McGrath &	Smith	·					lding, Mi	iland	, Texas	
Lease	** 1 0.		Well No.	Unit		1	Township	. •	Range		
Date Work Peri	Hondo Sta	Pool	1		<u> P</u>	21	Lounty	outh	<u> </u>	33-East	
	28. 1964	Saunders	Field (P	ermo	-Penn		Le	B			
			A REPORT				ite block)				
Beginning	Drilling Operation	ns Ca	asing Test a	nd Cen	ent Job	{	Other (E	xplain):			
X Plugging		Re	emedial Work	:							
Detailed accou	int of work done, na	ature and quantity	of materials	used,	and res	ults obta	ined.		•		
	used tubing, of 4½" csg.; surface. In is present b State Engine	25 sx plug stalled appr atween all p	@ 4100' copriate clugs. H	base mark lobbs	of 9 er, a Pipe	-5/8" nd cle and S	cag. and aned off upply ca	a 10 sx p location. lled the b	olug (₫ d	
Witnessed by	Harry Mitche	11	Position E	ngin	eer		Company	McGrath &	Smit	h	
		FILL IN BE					EPORTS ON	ILY			
D = E1	l T D				WELL	PATA	ID 1 :	, , , , , , , , , , , , , , , , , , , 	- i -		
D F Elev.	T D		PBT	D			Producing	Interval	Con	mpletion Date	
Tubing Diamet	et'	Tubing Depth			Oil Stri	ng Diame	ter	Oil Strin	ng Dept	h	
Perforated Inte	rval(s)							L		, , , , , , , , , , , , , , , , , , ,	
Open Hole Inte	rval				Producing Formation(s)						
			RESUL	TS Of	J DF WORKOYER						
Test	Date of Test	Oil Productio BPD		Produc CFPI			Production PD	GO.R Cubic feet/	ВЫ	Gas Well Potential MCFPD	
Before Workover											
After Workover											
	OIL CONSERVA	TION COMMISSIO	М		I here to the	by certife best of	y that the in my knowledg	formation give	n abov	e is true and complete	
Approved by	Colon w'	- Arings	Ter		Name	/~/	ani	1 m	t	-heel	
Title	3				Positi	on	Engine	er	-	/	
Date		-			Compa	ıny .	<u> </u>				
	20				<u> </u>		McGrati	n & Smith		· ·	