PALADIN ENERGY CORP.

5WD 10/2**5**/04 29342428 790

AND IN MARK

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October 5, 2000

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe. New Mexico 87505

Re: Application For Authorization To Inject

Paladin Energy Corp.
State 'BB' NCT-1 Well #1
East Caprock Field, Lea County

1989' FSL, 1985' FWL Sec 11, T12S, R32E

Dear Sir/Madam.

Paladin Energy Corp. is herewith submitting the above referenced application to convert the State 'BB' NCT-1 #1 well to a salt water disposal well in the East Caprock Devonian Formation. Paladin is in need of additional salt water disposal capacity in the East Caprock field due to the successful re-completion of two of its Devonian producing wells, with high volume submersible pumps. The results of these workovers has been an increase in fieldwide oil and water production. Therefore, additional salt water disposal capacity will greatly improve our overall saltwater handling capabilities in the field and also facilitate further re-completions and increases in oil production.

Therefore for your consideration please find enclosed the following: a) Form C-103, to convert well to SWD, b.) Form C-108 and all necessary attachments and "proofs of notice" required for administrative approval.

If you have any questions or need further information, please call David Plaisance at 214-352-5245, Ext. 8. Thank you.

Sincerely,

David Plaisance Production Manager

Cc Oil Conservation District

Hobbs Division

Cc State of New Mexico

Commissioner of Public Lands

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

# OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

# APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: Paladin Energy Corp.
	ADDRESS: 10290 Monroe Dr., Suit 301, Dallas, Texas 75229
	CONTACT PARTY: David Plaisance PHONE: 214-654-0132
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 X No  If yes, give the Division order number authorizing the project:
V.	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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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)
* <b>XI</b> ,	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 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 sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: <u>David Plaisance</u> <u>TITLE: PRODUCTION Manager</u>
	NAME: David Plaisance TITLE: PRODUCTION Manager  SIGNATURE: DATE: 10/05/00
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

# 003 067 800

# Receipt for Certified Mail

No Insurance Coverage Provided Do not use for International Mail (See Reverse)

	Sent to Ja to of New	melia
	Street and No. 1148	
	RO., State and ZIP Code NM	87504-1148
	Postage	\$
	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
1001	Return Receipt Showing to Whom & Date Delivered**	
20116	Return Receipt showing & Whom, Date, and A treases a Address	
	TOTAL Postage UCT & Fees	2.39
,000	Postmark of Date 3	3)
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003 067 801



Receipt for
Certified Mail
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

	Sent to K.C. Resou.	RCES INC.
	Street and No.  224 BIRM P.O., State and ZIP Code.	insham,#IN
	P.O., State and ZIP Code CARDHF, CALIT	£ 92007
	Postage	\$
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	Special Delivery Fee	
	Restricted Delivery Fee	
991	Return Receipt Showing to Whom & Date Delivered	
une 1	Return Receipt Showing to Whor. Date, and Addresse a Address (	<i></i>
0,	TOTAL Postage & Fees	39
Form <b>3800,</b> June 1991	Postmark or Date	E Co
PS For	NOIT	<i>&gt;</i>

# INJECTION WELL DATA SHEET

Hole Size:		T O H	WELLBORE SCHEMATIC	WELL LOCATION: 1989' FSL, 1985' FWL K FOOTAGE LOCATION UNIT LETTER	OPERATOR: PALADIN ENERGY CORP.  WELL NAME & NUMBER: NEW MEXICO STATE 'BB' NCT-1 Well
	Hole Size: Cemented with: _ Top of Cement: _	Hole Size: Cemented with: _ Top of Cement: _		TTER	No. 1
Product	SX.	2400 sx. Surface Intermedial	WELL CO Surfac	11 SECTION	
Production Casing	Casing Size:  c. or  Method Determined:	Casing Size: 8-5  sx. or  Method Determined:  Intermediate Casing	WELL CONSTRUCTION DATA Surface Casing	12-S TOWNSHIP	
ned:	ft <sup>3</sup>	8-5/8"  ned: Circ.	<u>174</u>	32-E RANGE	

# INJECTION WELL DATA SHEET

Tub	Tubing Size: 3-1/2", 9.3# N-80 Lining Material: 100 505 Plastic Loating
Тур	Type of Packer: Weatherford Arrow Set Packer - Plastic Coated
Pac	Packer Setting Depth: 11,030'
Oth	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
<u> </u>	Is this a new well drilled for injection? YesYes
	If no, for what purpose was the well originally drilled? <u>Devonian Producer</u>
2	Name of the Injection Formation: Devonian
ω	Name of Field or Pool (if applicable): East Caprock Devonian
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No
Ń	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: East Caprock Wolfcamp - 8,500' (+,-)

# VII. PROPOSED OPERATIONS

- Α. 1.) Injection Rate: Maximum 10,000 BWPD Average 7,500 BWPD
  - 2.) Injection System Closed
  - 3.) Injection Pressure: Maximum 1000 psi

Average: expect to be on vacumn

- 4.) Injection Fluid: Devonian and Wolfcamp Formation Produced Water (see enclosed analysis)
- 5.) Devonian Formation is productive in field.

# VIII. INJECTION ZONE

- 1.) Devonian Formation
- 2.) Dolomite
- 3.) Thickness: 90' + penetration in this wellbore.4.) Depth: 11,134' to 11,225'
- 5.) Aquifers 300' (+,-)

# IX. Stimulation

- 1.) Acidize w/+,- 3000 gals 15% NE HCL
- XII. Paladin Energy Corp. has examined the available geologic and engineering information for the area if interest and have found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Production Manager Title

Martin Water Laboratories, Inc.

P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040

### RESULT OF WATER ANALYSES

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 693-4521

	RESULT OF WATE	R ANALYSES		
		LABORATORY NO	900201	
ro: <u>Mr. Michael Horn</u>		SAMPLE RECEIVE	D 9/29/00	
4006 Dunkirk, Midland, Texas	79707	RESULTS REPORT	TED10/4/00	)
COMPANY Paladin Energy Corp.		inion State	משט שמש	
FIELD OR POOL		LEASE	DD SWD	
SECTION BLOCK SURVEY	COUNTY	Len	TATE NM	
SOURCE OF SAMPLE AND DATE TAKEN:	0001111		DIAIE	
NO.1 Produced water - taken fr	com Posev 5 &	6 (separator)	9/29/00	
NO. 2			3/23/33	
NO. 3				
NO. 4		····		
REMARKS:De	evonian			
СН	EMICAL AND PHYSI			
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 80° F.	1.0338	3		·
pH When Sampled		<del>, -  </del>		<u> </u>
pH When Received	6.67			<del> </del>
Bicarbonate as HCO <sub>1</sub>	634	1		<del> </del>
Supersaturation as CaCO <sub>3</sub> Undersaturation as CaCO <sub>3</sub>				
Total Hardness as CaCO,	5,800	<del></del>		<del>                                     </del>
Calcium as Ca	1,720			<del> </del>
Magnesium as Mg	365			<del>                                     </del>
Sodium and/or Potassium	14,46			
Sulfate as SO <sub>a</sub>	1,619			
Chioride as Ci	24,850			
iron as Fe	7.			
Barkum as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	43,65	2		
Temperature *F.				
Carbon Dloxide, Calculated				
Dissolved Oxygen,				<u> </u>
Hydrogen Sutilde	11.0			<del> </del>
Resistivity, ohms/m at 77° F.	0.18	7		<del></del>
Suspended Oil				<del> </del>
Filtrable Solids as mg/l			<del></del>	<del> </del>
Valume Filtered, mi		<del></del>		<del></del>
		<del>-  </del>		
		<del>}</del>		<del> </del>
	Results Reported As M	Illianama Santitan		<u> </u>
Additional Determinations And Remarks	riesuits reported as in	INGIANIS CALCIO		
The undersigned certifies the a	above to be to	rue and correc	st to the best	of his
knowledge and belief.	acove to be c	tue and correc	TO CHE DESC !	VE IIIS
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			Ly Man of the	·
		( <sub>-,</sub>	We OVI	
Form No. 3			TO A DESCRIPTION	· .·•

Waylan C. Martin, M.A.

FAX: David @ Dallas (214-654-0133)

P. O. BOX 1468 MONAHANS, TEXAS 79766 PH. 943-3234 OR 563-1040

# Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

# RESULT OF WATER ANALYSES

		LABORAT	ORY NO.	900200	
TO: <u>Mr. Michae</u>	l Horn	SAMPLE RECEIVED 9/29/00			
4006 Dunkirk, Midland, Te	xas <u>79707</u>	_ RESULTS	REPORTED_	10/4/00	
COMPANY Paladin Energy Cor	p	LEASE	State "I	BB" SWD	
FIELD OR POOLSURVEY T	Lea	STAT	E_NM		
SOURCE OF SAMPLE AND DATE TAKEN:					
NO.1 Raw water - taken from f	resh water well.	9/29/00			
NO. 2					
	•	······································			
NO. 3					
NO. 4		· · · · · · · · · · · · · · · · · · ·			
REMARKS:					
	CHEMICAL AND PHY				
	NO. 1		10. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.00	20			
pH When Sampled					
pH When Received	6;				
Bicarbonate as HCO,		85			
Supersaturation as CaCO, Undersaturation as CaCO,				<del></del>	
Total Hardness as CaCO,		90			
Calcium as Ca		56			<del> </del>
Magnesium as Mg		24			<del> </del>
Sodium and/or Potesalum		<del>24</del> 19			
Sulfate as SO.		34			
Chloride as Ci		97			
Iron es Fe	0.				
Barium as Ba		V <del>-1</del>			
Turbidity, Electric					
Color as Pt					
Total Solids, Calculated	7	15		<del></del>	<u> </u>
Temperature *F.				<del></del>	
Carbon Dioxide, Calculated			•		
Dissolved Oxygen,					
Hydrogen Suifide	0	.0			
Resistivity, ohms/m at 77 ° F.	10.	60			
Suspended Oil					
Filtrable Solids as mg/l					
Volume Fillered, mi					
					ļ
					<u> </u>
	Results Reported As	Milligrama Per Lit	er		
Additional Determinations And Remarks		·	<del></del>		
The undersigned certifies	the above to be	true and o	correct 1	to the best o	of his
knowledge and belief.	<del></del>				
				<del> </del>	<u> </u>
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	<del></del>		<del>/y</del> /	- not	
Earn No. 2			7/1	1 Species	p f
Form No. 3			% ¥ <b>₹</b>		

Waylan C. Martin, M.A.

		Proposed Completion		Ca	sing		Tubing
			Hole Size				
				10.010	2 5 101	<b>5</b> 4 <b>5 1</b>	0.4101
	800		Size	13-3/8"	8-5/8"	5-1/2"	3-1/2"
			Weight	48#	32#	17#	6.5#
	300000		Grade				N-80
		13-3/8" Conductor @ 333' Cemented w/ 350 Sxs	Thread				Plastic Coat 8 rd
	100	Octioned W GOO GAS				<b> </b>	
			Depth	333'	3,620	11,224'	11,000
			Drive Pipe				2 2 601
			Elevation	4,373'	Tree Conn	ection	2-3/8" 8rd
	200						
				· · · · · · · · · · · · · · · · · · ·			<del></del>
	300						
		8-5/8" Surface Casing @ 3,620"					
	Ħ	Cemented w/ 2400 Sxs					
	İ						
	ŀ			·····	· . · . · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	- 1						
		Top of Cernent @ 7,590'					
		Top of Cement @ 7,590'					
		Top of Cement @ 7,590'					
		Top of Cement @ 7,590'					
		Top of Cement @ 7,590'					
		Top of Cement @ 7,590'					
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		Top of Cement @ 7,590'					
		Top of Cernent @ 7,590'					
		Top of Cement @ 7,590'					
			0000'				
	•	3-1/2", 9.5#, N-80 Tubing @11,	0000'				
	•		0000'				
		3-1/2", 9.5#, N-80 Tubing @11,	0000'				
	•	- 3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)					
		3-1/2", 9.5#, N-80 Tubing @11,					
		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995					
SV		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995		2-7/8" X 3-1	1/2" cross-ove	er	
SV		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford Arr					
		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995			1/2" cross-ove		
		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)	row Set - with	PALA	DIN ENERG	Y CORP.	
50		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)  Perforations: 11,162-192'			DIN ENERG		No. 1
SV		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)	row Set - with	PALA	DIN ENERG BB NCT-1	Y CORP. Well	
		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)  Perforations: 11,162-192'	row Set - with	PALA	DIN ENERG BB NCT-1	Y CORP.	
		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)  Perforations: 11,162-192' 2SPF	ow Set - with Lease	PALA	DIN ENERG BB NCT-1	Y CORP. Well Sec 11 T1	2S R32E
Sy		3-1/2", 9.5#, N-80 Tubing @11, (Plastic Coated)  2-7/8" Seating Nipple @ 10,995  2-7/8" X 5-1/2" Weatherford An Packer @ 11,030' (Plastic Coated)  Perforations: 11,162-192'	ow Set - with Lease	PALA	DIN ENERG BB NCT-1 ock	Y CORP. Well	2S R32E

TD 11518 Abo 1780 Wise 1005 If Dev 11445 IL UA 12-28-53 TBor, Inc. (S)  Ameroda S(A E1. 4416 TD. 3416 As. 3122 E1. 4398 As. 4122 E1. 4398	Umeradalect		Tenneco-Sunshine TD 10502 "Tenneco-Sunshine"	Hugh tes
Elk Oil & Vista Energy Elk Oil Conner's St. TD10700  90 63 I.W.Lovelody SY · Elk  (Amerada)  (ECG")	Texace BH  DIDITE SET  OUT NCT-1	B-10141	S.L.Williams etal V4 M.J.  TE Diffex  1.5.89  Tenneco, Va M.J.  J.N. Chambers  Julia Culp, V4 M.J.  J.S. G.M.   State Mi Llano Estacado Rch	
Yutes 3 · 1 · 89 LG·6406 56 25  State, MI BarTBar, Inc. (3)	Union   T x a c 937   T/A   2040 Gross-St. 8 10141 YO [cs Pet. 8 10141 A American Charles of the Control of	TIA WIN FEES WITH THE PROPERTY OF THE PROPERTY	Valley OEG 7 · 17 · 89 Valley OEG 6 · 25 · 91 6 · 19 · 91 7 · 22 · 89 7 · 9 · 89 ©1) G · 10 · 91 SE/4 SW H 7 · 24 · 91  Lignatur Cochroin, etal, MI TD 2002 D.L. Fullingim, etal, (S)	48 81 Ac 1
Hips Texaco BP NBP H.B.P.  1330 B3346 H.B.P.  B-10141  B co Murphy Corp.  12-10-00 15-10-16 1	1 chac   Amerodo 3 1	Ronadero Ronade o 1-18351600 8.1-93 20199 56391	Velley Of, G 7 : 17 : 89 Valley Of, G (	40.594c 7
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23 Tex a co 24   24   25   NCT-8   31   25   26   26   27   28   28   28   28   28   28   28	Mobil Product HBP 6-478 Spelly 1-18 Spelly	Spencer Cit Serv. LHutson Cit Serv. HBP LG-6785 K3320 T5300 3321 LWogner (Aroyn) ** K3320 Lit Sarv. Checkond Lit Sarv. Ningszzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz	Valley OEG  S · 23 · 91  D.L. Fullingim, etol, (5)	20.19K 7
Y (OPER)   Benneft &	Gr. Sery Mork 0. 2	StoltzeCo. HBP		1087# 3

V. PALADIN ENERGY CORP.
AREA OF REVIEW MAP
APPLICATION FOR AUTHORIZATION TO INJECT

NEW MEXICO. STATE "BB". NCT-1 Well-No. 1 to enter the state of the st

1		ا ا	"Colomon W. Robinson:" AF M.E. Mothers(s)	TARE TO CANSESSE LEGEN WOODS	10 1	Opal Prof. Tipperory
-	BorTier, Inc.(5)	22		Amerada litxa ta TM Sia   31 MA   BR Adoore	P320	Ene Com.
<b>₹</b> 0.	MW InexCo Stillings 2:1:00 3:33 (6:5012 U.S.MEZZEZ 16 DI	So.Pet. V4 MI Tenneco 1/4 M.I. State W.E. Malhers (#)	Rec - Pro &	Our Stalt % Pout Homitton	Janu a R.E.  U.S., Mail Pougherty i elai.M.I.zelda- W.E. Mothers W.E.Mqlhers	Leigh-Com. Toperary Leigh-Com. Toperary Light-Com. Toperary Light-Com. Toperary Machine Com. Toperary Machine
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	Inexco 7811	A-3620	Perolo) (HA)	0/A/0.7-53	Juna 75	ripper Tipper Tipperary ory Tipper Tipperary ory o
<del>-</del>	 		DM 9-74-72 hrtbii050 26	25	Tank 7 30 FF.	Tipperary 1-e Tipperary 10 1834
Each	2-1-06 L6-5014 7833	i       Stote	Pronet Cattle Inc. etal 6. 1. 83 LG-2026	11 30 11 10 11 10 10 10 10 10 10 10 10 10 10	Towar 2 Grohom SI 4.8	Tipperary Julia *
<del>-</del>	State BarTBarInc.(S)	BarTBar, Inc. (5)	Bar T Bar, Inclis State 15 20	Sinte ElkOil ElkOil	Poleris Hommack Texaco I (enacco)	Was Kases
	YatesPet <sub>e</sub> chal 9 - 1 -89 4-1216 30 <u>76</u>	Yates Pet, etc. Yates 9-1-83 9-1-87 V-1217   L6-4550 37 50   43 12	1) -1 - 39 VA-135 96 M	1-29-77 1-23-77. (J.M.Kelly) 1-6-1733	#2037 Blokeney-St.  JADE 7  BTA, etol a F. B. Gist, Mil	1 K3985
	33	34	35	Elkon 36 Booky-st. To 3748	36 - 5337 John H. Moore	Wagner, Brown: Legeo
ods et. 1.89	6 90 16 - 84 88 19823 20747 Vedes Pet	1	Kefly 4 - 1 - 84 16-7733 Texos 2650	TO TO	Myrtle	Wogner Salanda Wondo Works (Operated)
2500	Open State V-1216 30 1€	Stote ANNA ANNA ANNA	Texos 2650 Store DAMPS  BANGES   F.E. Levers	Store	State	
	Ronadera E Tiera Cit   1 E - 1 - 199 V 1995 Krilly 1- 1995 Krilly 1- 1997 FE	Yates 12-1-88 LG-6126	Sure EN Cil   Success   Sure   EN Cil   Success   Sure   EN Cil   Success	Top Previet (S)  The Table   Ind   It   It    Target   LL Country    NCT-9   Christenson    B-9946   LG-1820    MILCON    MILC		
	Amerada Storie Memorial M2 21:55 10:3090 Expl.   DM3:5-46 HBP   L-2775 4	3/2 (APR	E-mes Backer	or Style F492	6	Shell Ord   14   16 0346   17   17   18   18   17   18   18   18
(ejl 87	CAPROCK, NO	TD US'M Amerode Star C1 4416 (12 4246 (13 424 (14 4244	Sun I FECA "SI-DI"	O.R. Wortson 11-27 to losses 11-27 to losses 12-27 Tenneco enneco 12-22-23 Tenneco Sunstine	A STATE OF THE STA	(Som Boren)  J. L. Cax Shell-St.  K-3774 Income of to  K-C. Shell-St.  Shell-
.k 4.M.s 4.M.s (S) 2	BarTBar, Inc.(S)	State Day 1845 M.1. Da 12:22:33 SorTBarkec.(5)		Tenneco-Sunshing 2  3 Tenneco, VaML Prise  J. N. Chambers, et al.  E.E. Diffee Jomes Curries	Store Hugh 689"	Shell
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District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Axtec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

API Number

District IV

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-10 Revised October 18, 199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copic

AMENDED REPOR

Fee Lease - 3 Copic

# WELL LOCATION AND ACREAGE DEDICATION PLAT

1 Pool Code

30-025-	00109		East Caprock Devonian						
Property (	Code				1 Property	Name			* Well Number
26437				New Me	xico State	'BB' NCT-1			1
'OGRID	No.				Operator	Name			* Elevation
164070	) ]			Pala	din Energy				4373'
					10 Surface	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	11	125	32E		1989'	South	1985	West	Lea
	· .		11 Bot	tom Hole	e Location I	f Different Fro	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11 Dedicated Acr	_	WILL BE A		D TO TH					CONSOLIDATED
		OR A	NON-ST	ANDARD	UNIT HAS B	EEN APPROVED	BY THE DIV	ISION	
16							Signature Davi Printed Nac Prod	d Plaisance  d Pla	ager
	1985'		1989'				Date of Sur	rify that the well la from field notes of a supervision, and the he best of my belief vecy nd Seal of Protessi	casion shown on this plat actual surveys made by m that the same is true and
<u></u>		<u> </u>				1	Centificate	Number	

# Affidavit of Publication

STATE OF NEW MEXICO	)
COUNTY OF LEA .	) ss. )
COUNTY OF ELA	,
Joyce Clemens being first duly so says that she is Advertisting Direction DAILY LEADER, a daily newspaper tion published in the English lar County, New Mexico; that said new lished in such county continuously period in excess of Twenty-six (26 prior to the first publication of the hereinafter shown; and that said duly qualified to publish legal notice Chapter 167 of the 1937 Session Mexico.	ector of THE LOVINGTON per of general paid circula- inguage at Lovington, Lea  wspaper has been so pub- y and uninterruptedly for a  6) consecutive weeks next  notice hereto attached as  newspaper is in all things  ices within the meaning of
That the notice which is hereto at	tached, entitled
Legal Notice	
was published in a regular and	entire issue of THE LOV-
INGTON DAILY LEADER and not	t in any supplement there-
of, for <u>one (1) day</u> , b	eginning with the issue of
<u>September 28</u> , 2000	and ending with the issue
of September 28	, 2000.
And that the cost of publishing sa	id notice is the sum of

which sum has been (Paid) as

**LEGAL NOTICE** Paladin Energy Corp. proposes to convert the New Mexico BB State NCT-1 well, located 1989' FSL and 1985' FWL of Section 11. T12S, N.M.P.M., Lea County, New Mexico to a saltwater disposal well. Paladin will dispose of saltwater into the Devonian formation from a depth of 11,130' to 11,192' at a maximum rate of 10,000 PBD at a maximum pressure of 1000 psi. Questions pertaining to this application should be directed to Mr. David Plaisance, Manager, **Drilling and Production for** Paladin, 10290 Monroe Drive, Suite 301, Dallas, Texas 75229; phone number (214) 654-0132, Ext. Interested parties should file objections or requests for hearing with Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.

Published in the Lovington Daily Leader September 28, 2000.



Debbie Schilling

September 2000

16.81

Court Costs.

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2002

Subscribed and sworn to before me this 28th day of

### VI

# WELL WITHIN THE AREA OF REVIEW WHICH PENETRATE THE PROPOSED INJECTION ZONE CAPROCK, EAST (DEVONIAN) SEC's 10,11,14, T12s-R32E LEA COUNTY, NEW MEXICO

Oper Code: 000966

Meridian Code: 23

Oper Code: 033095

Field Code: 008270

Prov Code: 430

Prov Code: 430

API Nbr: 30025000990000 State: NEW MEXICO County: LEA

Oper: AMERADA HESS CORP

Lease: STATE ECG Well: 1

AAPG Prov: PERMIAN BASIN

Field Code: 008270 Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

SEC: 10.0 CONGRESS SECTION Spot: 12.05 Rng: 32.0E

Footages: 1980FSL 330FEL

Lat: 33.29148 Source: TBNAD27 Long: -103.69778

Tools: ROTARY Rig Nbr: Contr: Riq Release: Oper Elev: 4415DF Rig Ht:

Drlr Depth: 10834 FT TVD: Form @ TD:

Spud Date: 04/26/1953 Date Well Added: 08/01/1973 Abnd Date: Comp Date: 06/27/1953 Last Update: 06/10/2000 TD Reached:

Final Status: D&A Pool: Initial Well Class: DEVELOPMENT WELL

Final Well Class: DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)

(Casing)

Depth Size Cement 325 SACK 13 3/8 IN 329 FT 1500 SACK 8 5/8 IN 3655 FT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

API Nbr: 30025080070000 State: NEW MEXICO County: LEA

Oper: TEXACO INCORPORATED

Well: 1 Lease: STATE BH

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

Meridian Code: 23 12.0S Rng: 32.0E SEC: 11.0 Spot:

660FNL 1980FWL CONGRESS SECTION Footages:

Source: TBNAD27 Lat: 33.29875 Long: -103.69027

Tools: ROTARY Contr: Riq Nbr: Oper Elev: 4371ES Rig Ht: Rig Release:

Drlr Depth: 11220 FT TVD: Form @ TD: DEVONIAN

Log TD: PB Depth: 11218 FT Form Age @ TD: DEVONIAN U

Spud Date: 03/22/1952 Date Well Added: 08/01/1973 Abnd Date: Comp Date: 07/29/1952 Last Update: 06/10/2000 TD Reached:

Oper Code: 000966

Field Code: 008270

Oper Code: 000966

Field Code: 008270

Meridian Code: 23

-103.68102

Prov Code: 430

Spot:

Long:

Meridian Code: 23

-103.68529

Prov Code: 430

Spot:

Long:

Final Status: OIL

Pool:

Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL

(Casing)

Size	Depth	Cement	
13 3/8 IN	346 FT	350 SACK	
8 5/8 IN	3605 FT	2300 SACK	
5 1/2 TN	11220 FT	400 SACK	

API Nbr: 30025000970000 State: NEW MEXICO County: LEA

Oper: AMERADA HESS CORP

Well: 1 Lease: HC POSEY A

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

12.0S Rng: 32.0E SEC: 11.0

660FSL 1980FEL CONGRESS SECTION Footages:

33.28745 Source: TBNAD27 Lat:

Rig Nbr: Contr: Tools: ROTARY

Oper Elev: 4350DF Rig Ht: Rig Release:

Drlr Depth: 11230 FT TVD: Form @ TD: DEVONIAN

Log TD: PB Depth: Form Age @ TD: DEVONIAN U

Spud Date: 01/09/1952 Date Well Added: 08/01/1973 Abnd Date: Comp Date: 04/25/1952 Last Update: 06/10/2000 TD Reached:

Final Status: OIL Pool:

Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL

(Casing)

Size	Depth	Cement		
13 3/8 IN	296 FT	225 SACK	CIRC. OALC.	OIDLE
8 5/8 IN	3610 FT	1500 SACK	608° ALC.	III LEIKI P
5 1/2 IN	11160 FT	600 SACK	8112 acc.	ILLEGIBLE

\*

API Nbr: 30025000980000 State: NEW MEXICO County: LEA

Oper: AMERADA HESS CORP

Well: 2 Lease: HC POSEY A

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

12.05 Rng: 32.0E SEC: 11.0 Twp:

1980FSL 660FEL CONGRESS SECTION Footages:

Source: TBNAD27 33.29118 Lat:

Contr: Tools: ROTARY Rig Nbr:

Oper Elev: 4337DF Rig Ht: Rig Release:

Drlr Depth: 11283 FT TVD: Form @ TD: Spud Date: 05/13/1952

Date Well Added: 08/01/1973 Abnd Date: Last Update: 06/10/2000 TD Reached:

Comp Date: 08/28/1952 Final Status: D&A

Pool:

Initial Well Class: DEVELOPMENT WELL

Final Well Class: DEVELOPMENT WELL-DRY (INCLUDING TEMPORARILY ABANDONED WELL)

(Casing)

Si:	ze		Depth	Ce	ement
13	3/8	IN	296 FT	225	SACK
8	5/8	IN	3615 FT	1500	SACK

SEC: 11.0

CONGRESS SECTION

33.29087

Date Well Added: 08/01/1973 Abnd Date:

Last Update: 06/10/2000 TD Reached:

API Nbr: 30025001000000 State: NEW MEXICO

Oper: AMERADA HESS CORP

Well: 3 Lease: HC POSEY A

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Contr:

Meridian: NEW MEXICO 1855

12.0S Rng: 32.0E

Footages: 1980FSL 1980FEL

Lat:

Source: TBNAD27

Oper Elev: 4357ES

Tools: ROTARY

Rig Ht:

TVD:

Pool:

Drlr Depth: 11237 FT

Log TD:

PB Depth:

Spud Date: 08/27/1952

Comp Date: 12/07/1952

Final Status: OIL

Initial Well Class: DEVELOPMENT WELL

Final Well Class: DEVELOPMENT WELL-OIL Prod Formation: DEVONIAN

(Casing)

Size Depth Cement 13 3/8 IN 301 FT 225 SACK 8 5/8 IN 3590 FT 1500 SACK 5 1/2 IN 11147 FT 600 SACK

API Nbr: 30025001060000 State: NEW MEXICO

Oper: AMERADA HESS CORP

Lease: STATE ECF

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Contr:

Meridian: NEW MEXICO 1855

12.0S Rng:

32.0E Footages:

660FSL 660FWL CONGRESS SECTION

11.0

SEC:

Lat:

Source: TBNAD27

Tools: ROTARY

33.28793

Long: -103.69456

Meridian Code: 23

Rig Nbr:

Spot:

County: LEA

Oper Code: 000966

Field Code: 008270

Prov Code: 430

County: LEA

Spot:

Long:

Rig Nbr: Rig Release:

Oper Code: 000966

Field Code: 008270

Form @ TD: DEVONIAN

Form Age @ TD: DEVONIAN U

Meridian Code: 23

~103.68559

Prov Code: 430

Oper Elev: 4389ES

Rig Ht:

Rig Release:

Drlr Depth: 11302 FT

TVD:

Form @ TD: DEVONIAN

Log TD:

PB Depth:

Form Age @ TD: DEVONIAN U

Spud Date: 02/05/1953

Last Update: 06/10/2000 TD Reached:

Date Well Added: 08/01/1973 Abnd Date:

Comp Date: 04/23/1953

Pool:

Final Status: OIL

Initial Well Class: DEVELOPMENT WELL

Final Well Class: DEVELOPMENT WELL-OIL

(Casing)

Si	ze		Dep	th	Cer	nent
13	3/8	IN	297	FT	225	SACK
8	5/8	IN	3610	FT	1500	SACK
5	1/2	IN	11270	FT	700	SACK

\*\*\*\*\*\*\*\*\*\*\*\*

API Nbr: 30025001070000 State: NEW MEXICO

Oper: UNION OIL CO OF CAL

County: LEA

Oper Code: 034551

AAPG Prov: PERMIAN BASIN

Lease: GROSS STATE

Prov Code: 430

Field: CAPROCK EAST

Field Code: 008270

District: 01

Meridian: NEW MEXICO 1855

Meridian Code: 23

12.0S Rng: 32.0E SEC: 11.0

660FWL

Spot:

Footages: 1980FSL Source: TBNAD27

CONGRESS SECTION Lat:

33.29107 Long: -103.69392

Contr:

Rig Nbr:

Oper Elev: 4341GR

Tools: ROTARY Rig Ht:

Rig Release:

Drlr Depth: 11295 FT

TVD:

Form @ TD: DEVONIAN

Log TD:

PB Depth:

Form Age @ TD: DEVONIAN U

Spud Date: 06/30/1952

Date Well Added: 08/01/1973 Abnd Date: Last Update: 06/10/2000 TD Reached:

Comp Date: 10/31/1952 Final Status: OIL

Pool:

Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL

Prod Formation: DEVONIAN

(Casing)

Size Depth Cement 11 3/4 IN 323 FT 250 SACK 8 5/8 IN 3620 FT 1500 SACK 11278 FT 5 1/2 IN 150 SACK

12516' TOC 9110' TS

County: LEA

Spot:

Oper Code: 033095

Field Code: 008270

Meridian Code: 23

Prov Code: 430

API Nbr: 30025001080000 State: NEW MEXICO

Oper: TEXACO INCORPORATED

Lease: STATE OF N M BH NCT Well: 3

AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

12.0S Rng: 32.0E SEC: 11.0

Footages: 1980FNL CONGRESS SECTION 663FWL

33.29507 Long: -103.69417 Source: TBNAD27 Lat:

Riq Nbr: Tools: ROTARY Contr: Rig Release: Oper Elev: 4392DF Rig Ht:

Form @ TD: DEVONIAN Drlr Depth: 11272 FT TVD:

Form Age @ TD: DEVONIAN U PB Depth: 11270 FT Log TD:

Date Well Added: 08/01/1973 Abnd Date: Spud Date: 12/13/1952 Last Update: 06/10/2000 TD Reached: Comp Date: 04/10/1953

Final Status: OIL Pool: Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL

Prod Formation: DEVONIAN

(Casing)

Size			Depth		Cement	
13	3/8	IN	333	FT	350	SACK
8	5/8	IN	3589	FT	2300	SACK
5	1/2	IN	11272	FT	500	SACK

\*

API Nbr: 30025001100000 State: NEW MEXICO County: LEA

Oper: TEXACO INCORPORATED Oper Code: 033095

Well: 4 Lease: STATE OF N MEH NCT1

AAPG Prov: PERMIAN BASIN

Prov Code: 430 Field: CAPROCK EAST Field Code: 008270

District: 01

Meridian: NEW MEXICO 1855 Meridian Code: 23

12.0S Rng: 32.0E SEC: 11.0 Spot:

Footages: 990FNL 990FWL CONGRESS SECTION

Source: TBNAD27 Lat: 33.29756 Long: -103.69370

Contr: Tools: ROTARY Rig Nbr: Oper Elev: 4385DF Rig Ht: Rig Release:

Drlr Depth: 11235 FT TVD: Form @ TD: DEVONIAN

Log TD: PB Depth: Form Age @ TD: DEVONIAN U

Spud Date: 03/18/1953 Date Well Added: 08/01/1973 Abnd Date: Comp Date: 08/20/1953 Last Update: 06/10/2000 TD Reached:

Final Status: OIL Pool: Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL (Casing)

Si:	ze Depth		Ce:			
13	3/8	IN	335	FT	350	SACK
8	5/8	IN	3635	FT	2300	SACK
5	1/2	IN	11215	FT	400	SACK

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

County: LEA

Spot:

Oper Code: 000966

Field Code: 008270

Meridian Code: 23

API Nbr: 30025001130000 State: NEW MEXICO

Oper: AMERADA HESS CORP

Lease: HG POSEY A Well: 4

Prov Code: 430 AAPG Prov: PERMIAN BASIN

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855

12.0S Rng: 32.0E

CONGRESS SECTION Footages: 330FNL 2310FEL

-103.68651 Source: TBNAD27 Lat: 33.28517 Long:

Tools: ROTARY Rig Nbr: Contr: Oper Elev: 4354DF Rig Ht: Rig Release:

Form @ TD: DEVONIAN Drlr Depth: 11255 FT TVD:

Form Age @ TD: DEVONIAN U Log TD: PB Depth:

SEC: 14.0

Date Well Added: 08/01/1973 Abnd Date: Spud Date: 03/17/1953

TD Reached: Comp Date: 06/19/1953 Last Update: 06/10/2000 Final Status: OIL Pool:

Initial Well Class: DEVELOPMENT WELL Final Well Class: DEVELOPMENT WELL-OIL

(Casing)

Siz	ze		Depth		Cer	nent
13	3/8	IN	299	FT	225	SACK
8	5/8	IN	3615	FT	1500	SACK
5	1/2	IN	11205	FT	600	SACK

API Nbr: 30025001150000 State: NEW MEXICO County: LEA

Oper: AMERADA HESS CORP Oper Code: 000966

Well: 1 Lease: STATE ECA

AAPG Prov: PERMIAN BASIN Prov Code: 430 Field Code: 008270

Field: CAPROCK EAST

District: 01

Meridian: NEW MEXICO 1855 Meridian Code: 23

12.05 Rng: 32.0E SEC: 14.0 Spot:

Footages: 660FNL 1980FWL CONGRESS SECTION

Source: TBNAD27 Lat: 33.28362 Long: -103.69034

Contr: Tools: ROTARY Rig Nbr: Oper Elev: 4364DF Rig Ht: Riq Release:

Drlr Depth: 11314 FT TVD: Form @ TD: DEVONIAN

Log TD: PB Depth: 11290 FT Form Age @ TD: DEVONIAN U

Spud Date: 05/05/1951 Date Well Added: 08/01/1973 Abnd Date: Comp Date: 08/31/1951 Last Update: 06/10/2000 TD Reached: Final Status: OIL Pool:

Initial Well Class: NEW FIELD WILDCAT

Final Well Class: NEW FIELD WILDCAT-DISCOVERY

# (Casing)

Si:	ze			Depth	Cer	nent
13	3/8	IN	296	FT	225	SACK
8	5/8	IN	3662	FT	1500	SACK
5	1/2	IN	11314	FT	600	SACK

# STATE OF NEW MEXICO

Submit 3 Copies to Appropriate District Office

# **Energy, Minerals and Natural Resources Department**

Form C-103 Revised 1-1-89

**OIL CONSERVATION DIVISION** 

P.O. Box 1980, Hobbs, NM 88240  Santa Fe, NM 87505  SITRICT II P.O. Drawer DD, Artesia, NM 88210  DISTRICT III 1000 Rio Brazos Rd, Azlec, NM 87410  SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)  1. Type of Well: OIL  GAS WELL OTHER SWU  2. Name of Operator Paladin Energy Corp.  3. Address of Operator 10290 Monroe Dr., Ste. Ste 301, Dallas, TX 75229  4. Well Location  Unit Letter N : 1989 Feet From The South Line and 1985 Feet from The West Line  Section 11 Township 12-S Range 32-E NMPM Lea County Elevation (Show whether DF,RKB, RT, GR, etc)  4. Section 11 Township 12-S Range 32-E NMPM Lea County Elevation (Show whether DF,RKB, RT, GR, etc)  4. Section 11 Township 12-S Range 32-E NMPM Lea County Elevation (Show whether DF,RKB, RT, GR, etc)  Check Appropriate Box to Indicate Nature of Notice, Report, Or Other Data  NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS CGG TST & CMT JOB  TEMPORARILY ABANDON CHANGE PLANS CGG TST & CMT JOB  12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent date, including estimated	DISTRICT I	2040 Pacheco St.		WELL API NO.
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Move on location, rig up. GIH w/ 4-1/2" bit and drill out bottom of 5-1/2" casing @ 11,225'.  Drill 100 feet of open hole in Devonian Formation to 11,325' (+,-). POOH w/ drill bit. Rig up E-line, GIH with	<u> </u>	•		
4-1/2" Hollow Carrier perforating guns and perforate from 11,134-11,204', rig down e-line.				
GIH with 5-1/2" packer and work string and set packer at 11,000'. Rig up and pump 3500 gallons of 15%				
HCl acid and perform ball sealer acid job. POOH with work string.				
Run 5-12" Weatherford Arrow Set, plastic coated Packer w/ 11,000 3-1/2" 9.3#, N-80, plastic coated tubing.		•		
Set packer @ 11,000' (+,-). Perform casing integrity test. Nipple up tree. Rig down & MOL.  Thereby certify that the information above is true and complete to the best of my knowledge and belief.	hereby certify that the information al	ove is true and complete to the best of my knowledge an	t. Nippie up tree. Rig d belief.	down & MOL.
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# BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE NO. 1452 Order No. R-1209

APPLICATION OF AMERADA PETROLEUM CORPORATION FOR THE DUAL COMPLETION OF A WELL TO PRODUCE OIL FROM THE PENNSYLVANIAN FORMATION ADJACENT TO THE EAST CAPROCK PENNSYLVANIAN POOL, LEA COUNTY, NEW MEXICO, AND TO PERMIT THE INJECTION OF SALT WATER THROUGH THE CASING-TUBING ANNULUS INTO THE DEVONIAN FORMATION.

# ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on May 28, 1958, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 20th day of June, 1958, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

# FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Amerada Petroleum Corporation, is the owner and operator of the H. C. Posey "A" No. 4 Well, located in the NW/4 NE/4 of Section 14, Township 12 South, Range 32 East, NMPM, Lea County, New Mexico, and that said well is now depleted in the Devonian formation and that the applicant proposes to recomplete the well in the Pennsylvanian formation adjacent to the East Caprock-Pennsylvanian Pool.
- (3) That the applicant proposes to dually complete the said H. C. Posey "A" Well No. 4 in such a manner as to permit the disposal of salt water in the Devonian formation below the water-oil contact, with the salt water being injected down the casing-tubing annulus to the upper packer, through 2 1/2-inch tubing between the upper and the

-2-CASE NO. 1452 Order No. R-1209

lower packer, thence down 5 1/2-inch casing below the lower packer to the disposal interval.

- (4) That the applicant failed to prove that by use of the proposed mechanical installation the Pennsylvanian formation can be effectively isolated from the injected salt water.
- (5) That the invasion of salt water into the Pennsylvanian formation would cause waste.
- (6) That the application for dual completion of the said H. C. Posey "A" No. 4 Well should be denied.
- (7) That the disposal of salt water into the Devonian formation below the water-oil contact will not cause waste provided the said H. C. Posey "A" No. 4 Well is not open to the Pennsylvanian formation.
- (8) That the applicant should be permitted to utilize the said H. C. Posey "A" No. 4 Well as a salt water disposal well in the Devonian formation below the water-oil contact.

# IT IS THEREFORE ORDERED:

- 1. That the application of Amerda Petroleum Corporation for permission to dually complete its H. C. Posey "A" No. 4 Well, located in the NW/4 NE/4 of Section 14, Township 12 South, Range 32 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from the Pennsylvanian formation adjacent to the East Caprock-Pennsylvanian Pool through 2-inch tubing and to permit the injection of salt water below the water-oil contact in the Devonian formation through the casing-tubing annulus to the upper packer, through 2 1/2-inch tubing between the upper and, the lower packer, thence down 5 1/2-inch casing below the lower packer to the disposal interval, be and the same is hereby denied.
- 2. That the applicant, Amerada Petroleum Corporation, be and the same is hereby granted permission to utilize the said H. C. Posey "A" Well No. 4 as a salt water disposal well by injecting the salt water into the Devonian formation below the water-oil contact, provided said well is not open to the Pennsylvanian formation.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

MURRAY E. MORGAN, Member

SEAL

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

# OF THE STATE OF NEW MEXICO

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

CASE No. 4343 Order No. R-3954

APPLICATION OF TEXACO INC. FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

# ORDER OF THE COMMISSION

# BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on April 29, 1970, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 4th day of May, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

# FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Texaco Inc., is the owner and operator of the New Mexico "BB" State (NCT-1) Well No. 2, located in Unit N of Section 11, Township 12 South, Range 32 East, NMPM, East Caprock-Devonian Pool, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Devonian formation, with injection into the perforated and open-hole interval from approximately 11,194 feet to 11,278 feet.
- (4) That the injection should be accomplished through 2 7/8-inch plastic-lined tubing installed in a packer set at approximately 9000 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-CASE No. 4343 Order No. R-3954

be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

# IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to utilize its New Mexico "BB" State (NCT-1) Well No. 2, located in Unit N of Section 11, Township 12 South, Range 32 East, NMPM, East Caprock-Devonian Pool, Lea County, New Mexico, to dispose of produced salt water into the Devonian formation, injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 9000 feet, with injection into the perforated and open-hole interval from approximately 11,194 feet to 11,278 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

- That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary. ..

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

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

SEAL

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