

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Oil Conservation Division Engineering Bureau 2040 Pacheco St. Santa Fe, New Mexico 87505

Case No. <u>11784</u> Exhibit No. <u>1</u>

Submitted by: <u>Layton Enterprises Inc.</u>

Attn: Mr. David Catanach

Hearing Date: June 12,1997

Dear Sir:

We are in the process of submitting Form C-108, Application for Authorization to Inject, for our Fox A State No. 5 well located in the SENW 4, Sec. 2, Twp. 95, Rge. 36E, Lea County, N.M. in the Allison Penn Pool. Because of a unique situation in this well, we request a hearing be set for the May 1997 docket.

The proposed well was drilled in 1991 to test the Devonian zone. The initial test was 100% water as were two subsequent workover attempts. In the interim the well was completed in the Bough C Penn zone, but after a test period of several months the zone was abandoned as uneconomic.

The Bough C Penn zone is in a state of near total depletion due to the extremely low bottom hole pressure. Within the proposed project area in the southern end of the Allison Field there are only seven producing wells remaining. All are small marginal wells and are at or very near economic limit, subject to abandonment.

The project area of approximately 1800 acres has produced 5.4 MMBO plus an estimated 4 MMBW and 7 MMCFG. Sufficient reservoir data is not available to make an accurate volumetric calculation. However, since the primary producing mechanism appears to be solution-gas, with a possible assist from connate water expansion, it is reasonable to assume that oil recovery to date would not exceed 25% of original oil in place. Therefore, a successful secondary recovery attempt projected to recover an additional 10% of original oil in place would recover 2 MMBO which would otherwise not be produced.

The sizable void space in the reservoir will require a prolific and inexpensive water source to accomplish fill up. The only water currently available is a small amount of produced water (± 350 BD) currently being disposed in another Bough C well. The only adequate source available is from the Devonian zone.

April 25, 1997 Page 2

1

Since the Bough C zone is capable of accepting adequate volumes of water by gravity pressure, it follows that injection can be accomplished by completing both zones in the same well bore and utilizing the higher pressure and volume from the Devonian zone.

We propose to complete the injection well in both the Bough C and Devonian zones with tubing and packer set above the Bough C zone. This will allow the higher pressure Devonian water to flow into the Bough C zone. This flow, supplemented with available produced water, is expected to effect our desired rate of 2000 to 2500 BWPD. Following the anticipated successful performance of this well and the pilot area, we intend to re-complete two additional combination wells which are available in the project area.

Our application on Form C-108 with the required information and data will follow shortly. We will appreciate your placing our hearing on the May docket.

Very truly yours,

CAYTON ENTERPRISES, INC Donald R. Layton

President

DRL/bwl

STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL **RESOURCES DEPARTMENT**

011 Conservation Div. 2040 Pacheco St. Santa Fe, NM 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: X Application qualifies for	Secondary Recovery	Pressure Maintenance Yes <u>X</u> No	D	isposal Storage
JI,	OPERATOR:	LAYTON ENTERPRISES,	INC.		
	ADDRESS:	3103 79th St.	LUBBOCK, TEXAS	79423	
	CONTACT PARTY:	Donald R. Layton			_PHONE: 806/745-4638

П. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary,

- \times No IV. Is this an expansion of an existing project: Yes If yes, give the Division order number authorizing the project
- 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. V.
- 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:
 - 1. 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;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - 5. 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/1 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.)
- * 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.
- Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering XII. data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I bereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

TTTLE: President NAME: Donald R. Layton DATE: 🤝 SIGNATURE:

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 circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office



May 5, 1997

CERTIFIED MAIL

State of New Mexico Commissioner of Public Lands Oil, Gas, and Minerals Division 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, New Mexico 87504-1148

Devon Energy Corporation 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260 Yates Petroleum Corp. 105 South Fourth Street Artesia, New Mexico 88210

Discovery Operating, Inc. 800 N. Marienfeld, Suite 100 Midland, Texas 79701

Re: Application for Injection Fox A State No. 5 Allison Penn Field Lea County, New Mexico

Gentlemen:

In accordance with the rules of the Oil Conservation Division, attached is a copy of the subject application as notification to you as surface owner or offset leaseholder.

Very truly yours,

LAYTON ENTERPRISES Donald R. Layton

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President

P 588 187 910

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April 1995

PS Form 3800.

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LAYTON ENTERPRISES, INC. - FOX A STATE NO. 5

FORM C-108 - RESPONSE TO QUESTIONS - SIDE 1:

- VII. 1. 2000-2500 BWPD est. initial rate 1000-1500 BWPD after stabilization
 - 2. Closed System
 - 3. Gravity Pressure
 - 4. See Attached Analyses.

VIII. Geological Data

The Bough C Pennsylvania Zone occurs at a depth of 9650 (-5576) with a gross thickness of 25 to 30 feet. It is a stratigraphic trap consisting of a series of algal mounds or mats resting on a gently southwest dipping surface. The zone is comprised of a fine crystalline, tan and gray vuggy limestone carrying late Cisco fossils confirming that it is Pennsylvanian in age. The limited core data indicates net thickness of 10-15 ft., porosity 10-12% and permeability of 200 md. Estimates of original oil in place are 40-65%. The trap is controlled by up-dip porosity pinchout. Barren areas can occur within the field as a result of inter-mound locations.

The only known freshwater source in the area is a small well located in the SWSE $\frac{1}{2}$ of Section 2 at a depth of approximately 200 feet, apparently Ogalalla.

- IX. 500 Gal 15% HCl acid wash on each zone
- X. Last production test August 1996

0.2 BOPD - 15 BWPD - 4 MCFD

XI. See Attached Analysis.

TABULATION 'F DATA ON ALL & FLLS OF PUBLIC RECEND IN THE AREA OF REVIEWS - PARAGRAPH TI OF C-108

LAYTON ENTERPRISES INC. UNIT F SEC C, T95, R 36E For A STATE #1 DRILLED JUNE 1961 C36: 13 3 @ 360 w/ 325 Sx 8 18 @ 4245 w/ 2520 5x .. 4É @ 9725 w/ 500 3x • • Peris: 9651-63 PRODUCING LAYTON ENTERPRISES, INC. ONIT H SEC 2, T95, R36E FOR A STATE #2 DRILLED MAY 1959 CSG: 1318" @ 360 w/ 400 Sr 8 % @ 4166 w/ 1700 si 52 @ 9815 w/ 700 sx 11 PERFS; 9644-54 PRODUCING LAYTON ENTERPRISES, INC. UNIT N SEC 2, T95, R36E Fox A STATE # 3 DRILLED JULY 1954 (56: 13% @ 450 w/ 350 s. 9 5/5" @ \$200 w/ 3000 S. 5 2° @ 9809 w/ 600 5, PERFS: 9675-89 PRODUCING LAYTON ENTERPRISES, INC. For A STATE #4 UNIT B SEC 2, T95 R36E DRILLED AUGUST 1958 (36: 133/8" @ 358 au/ 400 5x 8 % @ 410,9 au) 1700 5x PBTD 52" @ 5970 w/ 1000 3x *1 SHUT IN

UNIT D E & T95, R36E COASTAL STATES PROD. LEA STATE #2 DRILLED NOVEMBER 1961 Cs6. 13 1/8 @ 366 w/ 300 Sx 8 % "@ 4120 w/1590 5x 52" @ 9784 w/ 600 sx CEMENT PLUGS : 25 5x @ 97.50 PERFS: 9758-62 25 5x @ 4012 10 3x @ JURFACE PEA APRIL 1967 CARTUS DRILLING UNIT B SEC 2, T95, R36E JUNRAY STATE A #1 DRILLED AUGUST 1958 C36: 13 3/5"@ 358 w/ 400 3x 8 % @ 4104 w/ 1700 Sr 52 @ 9880 w/ 500 Sx •• PERES: 9668 - 78 PULLED 6000' OF 52" · 1 CEMENT PLUGS: 15 Sx @ 9668 25 3x @ 6050 •• 25 sx @ \$175 ... PEA APRIL 1965 10 St @ SURFACE UNIT M SEC 2, T95, R36E ADA OIL Co. ADAMS STATE #1 DRILLED MARCH 1955 Csc: 13% @ 357 w/ 350 sm 8 % @ 4166 w/ 2000 Sx 52" @ 9730 w/ 200 Sx OPEN HOLE; 9730-60 PULLED \$175' 52" **;**, 4 1 ... BRIDGE PLUE: 9700 W/ 50' CEMENT : CEMENT PLUES: 25 5x @ \$175 . • • • • 10 SK @ SURFACE • • PÉA OCTOBER 1962

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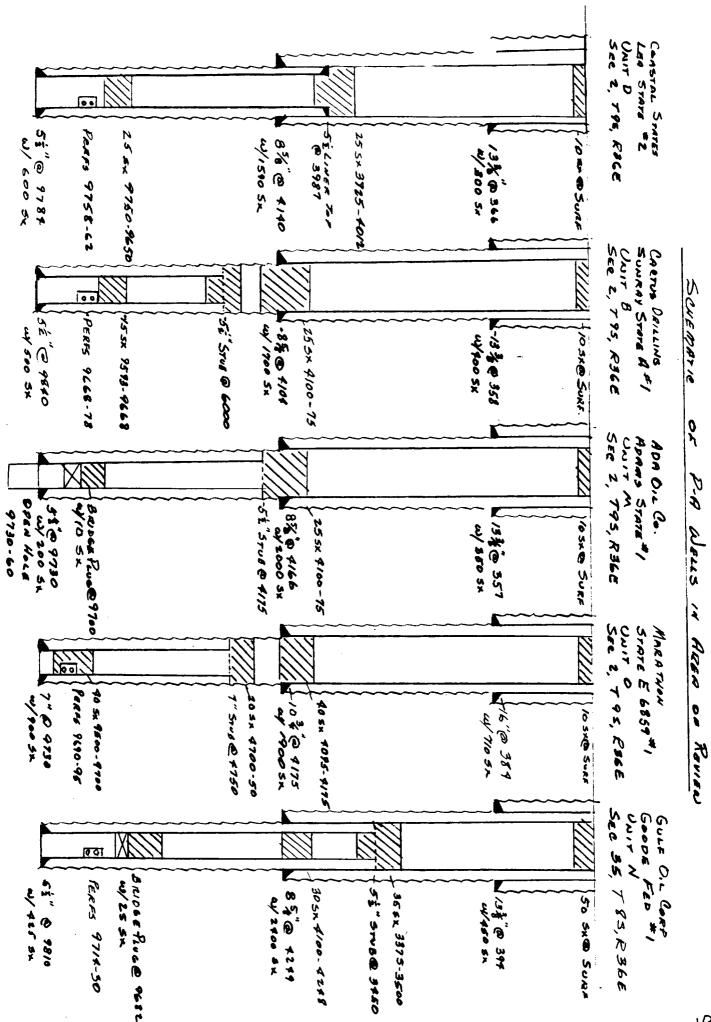
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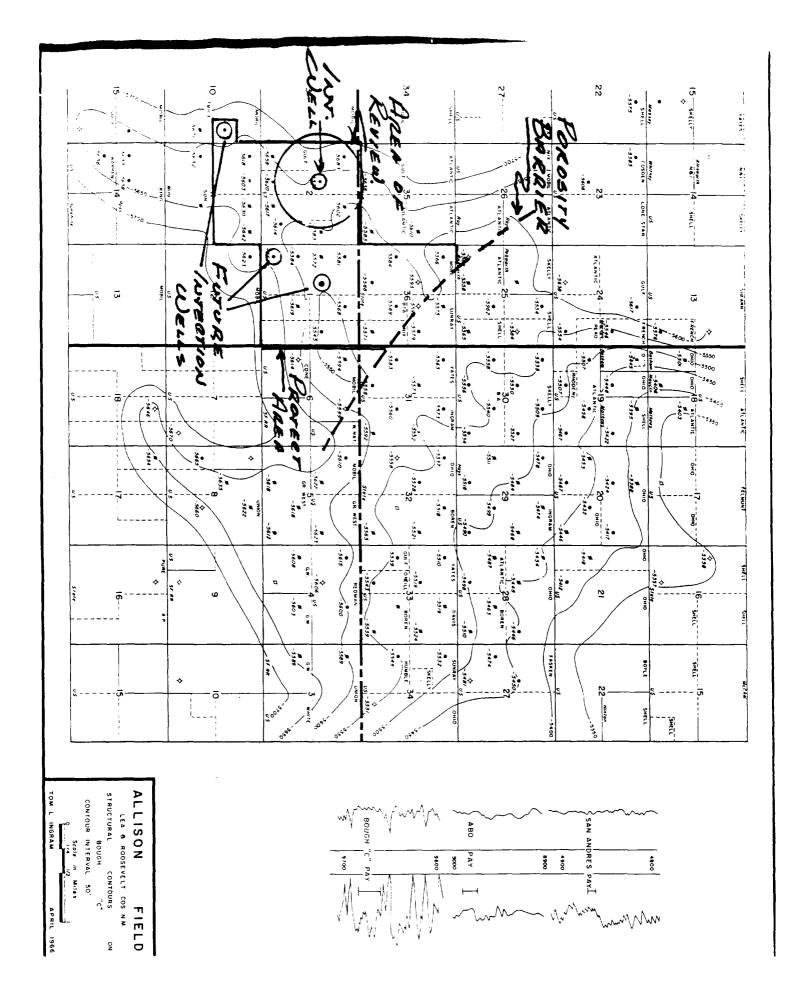
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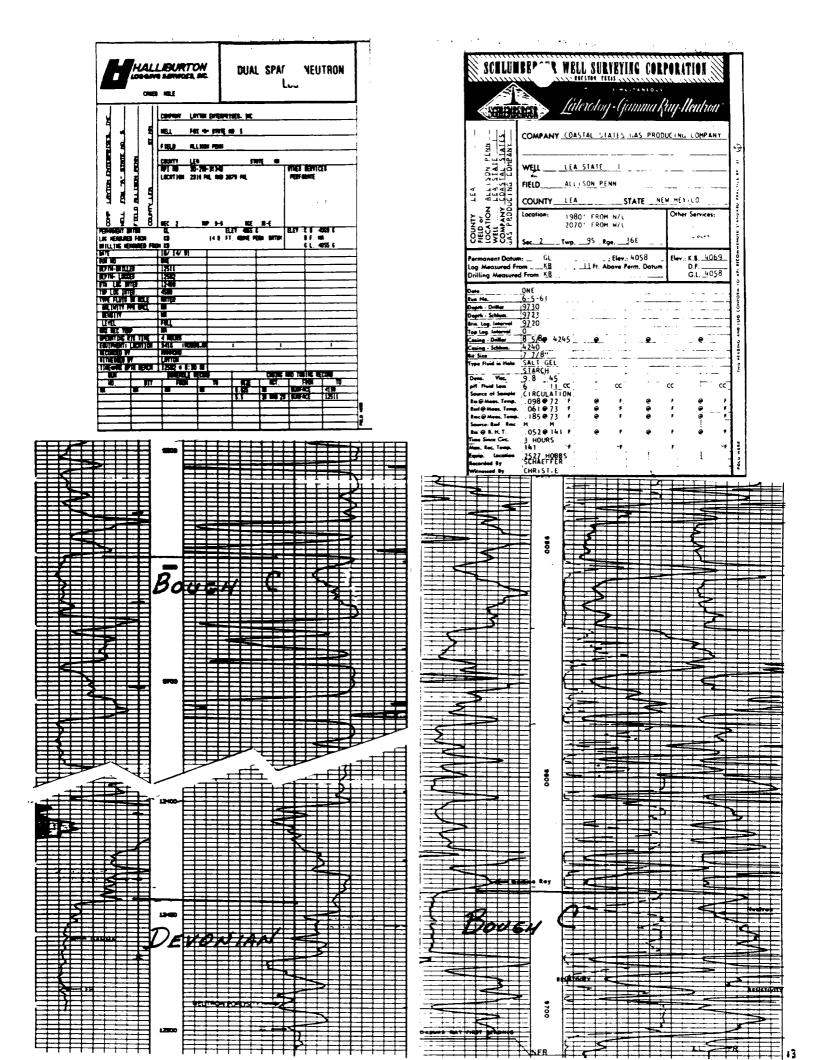
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(915) 550-7027 - **InterChem** 3803 Mankins - Odessa, Tx. 79763 WATER ANALYSIS REPORT

AMPLE

l Co. : Lease : ll No.: alysis:		BOUGH C	Date Atten	tion :	29-April-19 Pro-Kem, In		
NAL	YSIS						
2.	pH Specific Gra CaCO3 Satura	avity 60/60 F. ation Index @ 8	5.700 1.068 30 F1.0	33			
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а Шинн			++++## SO4	CaCl ₂	55.50	247.22	13,721
a ₩₩₩ 000 10				Mg(HCO ₃)	2 73.17	0.00	0
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2336 - 2322 - 2308 -				NaHCO3	84.00	0.00	0
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2430 - 2430 - 2424 - 2410			$\overline{\leftarrow}$	NaCl	58.46	1,493.67	
nis wat	er is somewl	hat corrosive du	ue to the	*Mill pH observ	i Equival	ents per L lysis.	iter

he corrosivity is increased by the content of mineral salts in solution.

Oilfield Solutions, Inc. 2814 S.C.R. 1257, Midland, Tx. 79706

WATER ANALYSIS REPORT

npény: etion: irce:	Layton Enterprises Fox A State #5 DEVONI Well Head	[AN	Sempled B Analysis Di Selesman:				May	m Tech Services. 6, 1997 : Tubb	, I ng.
e Sampleo	l: April 29, 1997		•						
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1.				6.25					
2,	Specific Gravity 60/60 f.			1.047					
\$.	Hydragen Sulfide			0	PPN				
4.	Carbon Dioxide		Not Determined						
5.	Dissolved Oxygen		Not Determined						
6.	Hydroxyl (OH-)			-	1	17.0		0.00	
7.	Carbonate (CO3=)			٥		30.0		0.00	
8.	Bicerbonate (HCO3-)			626		61.1		8.59	
9.	Chioride (CL)				1	38.5		1.126.51	
10.	8uifate (304=)			1,450	1	48.8	=	29.7 1	
11.	Caldum (CA++)		:	2,806	1	20.1	-	139.60	
12.	Magnesium (Mg++)			1,216	1	12.2	-	99.67	
1 2 .	Sodium (Ne+)		21	287	1	23.0	•	925.54	
14.	Serium (Se++)		Not Determined						
15.	Total Iron (Fe)			2.00					
16.	Dissolved Solids		61	7.276					
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	• =		Mg3O4			60.19		0.00	
			MgCL2			47.82		99.67	4,74
			NeHCO3			84.00		0.00	
			NeSO4			71.03		0.00	
			NeC			55.44		828.64	54,10

INJECTION WELL DATA SHEET LANTON ENTERPRISES "A" STATE INC. Fox **DPERATOR** LEASE 2310' FNL 36 E 2070' FWL 2 SECTION WELL NO. FOOTAGE LOCATION TOWNSHIP RANGE LEA COUNTY, NEW MEXICO Schematic Tabular Data Surface Casing 13 3/2 Cemented with 350 sx. Size ... TOC <u>SURFACE</u> feet determined by <u>CIRPULATION</u> 172 " Hole size Intermediate Casing <u>1336</u>@ 340 Size 85 " Cemented with 1700 sx. TOC <u>SURFACE</u> feet determined by <u>CIRCULATION</u> _____ // " Hole size Long string Size 52 Cemented with 2000 sx. ** TOC 4000 feet determined by CALCULATION 7 7/8 " Hole size <u>8% @</u> \$135 TUBING - CASING ANULUS LOASED WITH WHIBITED Injection interval PACKER FLUID 9648 9648 feet to 9658 (perforated or open-hole, indicate which) 9658 PACKER @ 9600 BOUGH "C" PENN ZONE PERFS: 9648-66 DEVONIAN ZONE PERFS: 12450-60, 70-78,84-92 52 @ 12,511 23 lined with Rice ENER. FIBERGLASS Duo-Line set in B Tubing size _ (material) LOK - SET (PLASTIC COATED) packer at ____ 9600 BAKER feet (brand and model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation <u>BOUGH</u> (PENN) 2. Name of Field or Pool (if applicable) <u>ALLISON</u> PENN 3. Is this a new well drilled for injection? /_____ Yes 📈 No If no, for what purpose was the well originally drilled? OIL PRODUCTION 4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) SAN ANDRES \$165-66, SQ2. 300 SK, 5300-01, SQ2 150 SK; BOUGH D 9765-76 SAZ 300 SK : MORROWS 11, 978-88 SOZ 100 SX. 5. Give the depth to and name of any overlying and/or underlyimg oil or gas zones (pools) in this area. ABO 8950 SAN ANDRES 7800 -