

30-025-36529

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



## ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR

- [D] Other: Specify \_\_\_\_\_

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

HOBBS OCD

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[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James T. Cooper  
 Print or Type Name

*James T. Cooper*  
 Signature

owner  
 Title

11/4/2014  
 Date

sean\_04@leaco-net  
 e-mail Address

11/13/14

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance   X   Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?   X   Yes \_\_\_\_\_ No

II. OPERATOR:   J. Cooper Enterprises, Inc.    
ADDRESS:   Box 55 Monument, New Mexico 88265    
CONTACT PARTY:   Jimmy Cooper   PHONE:   575-369-7108  

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.

HOBBS OCD

VII. Attach data on the proposed operation, including:

NOV 12 2014

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. 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.).

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\*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).

\*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 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:   Eddie W. Seay   TITLE:   Agent  

SIGNATURE:   Eddie W. Seay   DATE:   10/30/2014  

E-MAIL ADDRESS:   seay04@leaco.net  

\* 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:   filed by Cimarex when drilled in 2004.  

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



## ATTACHMENT TO APPLICATION C-108

Cooper 8 well #2 (API 30-025-36529)  
Unit H, Sect. 8, Tws. 20 S., Rng. 37 E.  
Lea Co., NM

### III. WELL DATA

- A.
- 1) See injection well data sheets and attached schematics.
  - 2) See injection well data sheets and attached schematics.
  - 3) 3 1/2" coated tubing.
  - 4) Arrow Stainless Steel - Lock Set.
- B.
- 1) Injection formation is the Lower San Andres
  - 2) Injection interval 4300' to 4900'.
  - 3) Well was drilled as a producer.
  - 4) The next higher producing zone is the Upper SA at approximately 3762'.  
The next lower producing zone is the Glorieta at approximately 5129'.

### IV. NO.

### V. MAP ATTACHED.

### VI. LIST OF WELLS AND DATA ATTACHED.

VII. J. Cooper Ent. plans to re-enter the proposed well. Install anchors and wellhead. Clean out cement plugs down to approximately 4900'. Test casing for leaks. Run in hole and selectively perforate 5 1/2" casing from 4300' to 4900', acidize as needed. Go in hole with 3 1/2" coated tubing and packer, and set at approximately 4200' or 100 feet of top perforations. Load with packer fluid and run MIT as OCD requires and put on injection.

- 1) Plan to inject approximately 10,000 bpd of produced water from various sources of production.
- 2) Closed system, commercial.
- 3) Average injection pressure should be approximately 800# to 1200# or whatever limit OCD allows.
- 4) Analysis attached, only produced water.
- 5) Produced water from various sources..

VIII. The proposed disposal formation is interbedded shale and limestone. The primary geologic formation is the Lower San Andres from 4300' to 4900'.

The fresh water formation in the area is the Alluvium which ranges in thickness from 20' to 30'. Analysis of water well attached.

**IX. ACID AS NEEDED.**

**X. PREVIOUSLY SUBMITTED TO OCD.**

**XI. ATTACHED.**

**XII.** I, Eddie W. Seay, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.

**XIII. ATTACHED.**

INJECTION WELL DATA SHEET

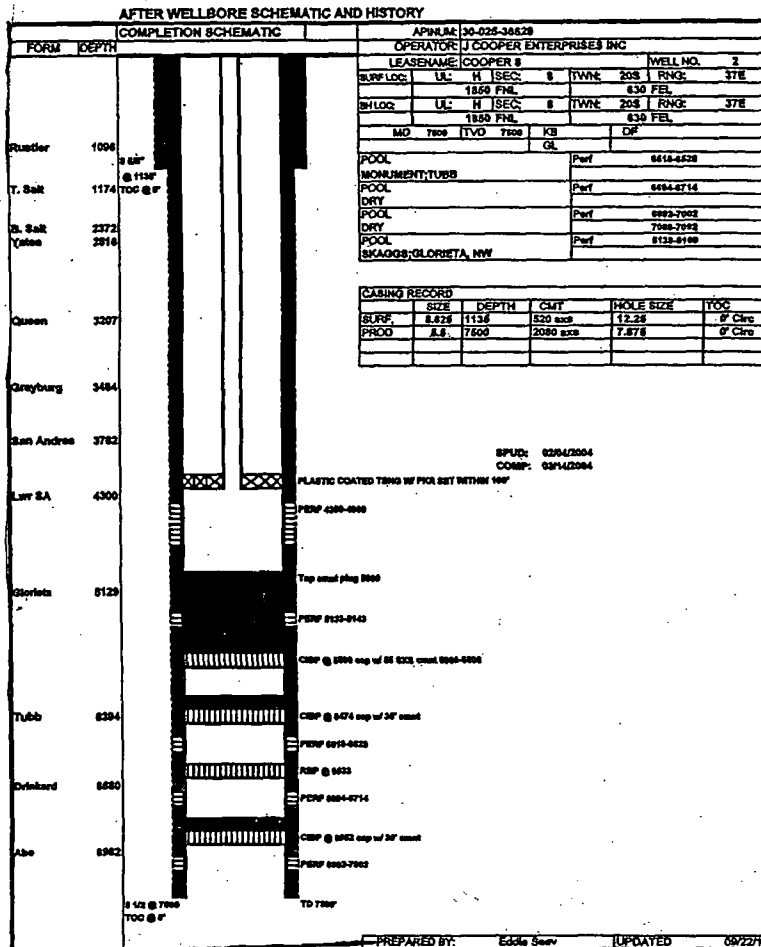
OPERATOR: J. Cooper Enterprises Inc.

WELL NAME & NUMBER: Cooper 8 #2 (API 30.025.36529)

WELL LOCATION: 1850/N 630/E H 8 20 37 E  
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA  
Surface Casing



Hole Size: 12.25 Casing Size: 8.625  
 Cemented with: 525 SX. or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: Surface Method Determined: Cure

Intermediate Casing

NA

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_  
 Cemented with: \_\_\_\_\_ SX. or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Production Casing

Hole Size: 7.875 Casing Size: 5.5  
 Cemented with: 2080 SX. or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: Surface Method Determined: Cure  
 Total Depth: 7500

Injection Interval

4300 feet to 4900

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2 Lining Material: IPC  
Type of Packer: Stainless Steel Arrow set  
Packer Setting Depth: 4200'  
Other Type of Tubing/Casing Seal (if applicable): NONE

Additional Data

1. Is this a new well drilled for injection? Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

Production

2. Name of the Injection Formation: Lower San Andres

3. Name of Field or Pool (if applicable): Monument Field

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. \_\_\_\_\_

5133-5143; 6518-6528; 6694-6714; 6992-7092 see schematic

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_

Upper SA 3762

Glorieta 5129

## DISPOSAL WELL

30-025-36529	COOPER 8	2	CIMAREX ENERGY CO. of COLORADO	7500	O	A	Lea	P	H	8	20	S	37	E	1850	N	630	E
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Wells within 0.5 miles of proposed disposal well.

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STATUS	CO	LAND	U/L	SEC	TWN		RNG		N/S		E/W	
30-025-05906	NORTH MONUMENT G/SA UNIT	16	APACHE CORP	3895	O	A	Lea	P	P	5	20	S	37	E	660	S	660	E
30-025-05889	NORTH MONUMENT G/SA UNIT	13	APACHE CORP	3890	O	P	Lea	P	M	4	20	S	37	E	660	S	660	W
30-025-35870	LAUGHLIN	8	CIMAREX ENERGY CO. of COLORADO	6800	O	A	Lea	P	M	4	20	S	37	E	330	S	700	W
30-025-06005	BRITT-LAUGHLIN COM	4	ENERVEST OPERATING L.L.C.	3890	G	P	Lea	P	A	8	20	S	37	E	660	N	660	E
30-025-36147	LAUGHLIN 8	1	CIMAREX ENERGY CO. of COLORADO	7500	O	A	Lea	P	A	8	20	S	37	E	660	N	990	E
30-025-06012	BERTIE WHITMIRE	2	OXY USA INC	3891	G	P	Lea	P	B	8	20	S	37	E	660	N	1980	E
30-025-06016	BERTIE WHITMIRE	6	OXY USA INC	7500	O	A	Lea	P	B	8	20	S	37	E	990	N	2310	E
30-025-36331	BERTIE WHITMIRE	11	OXY USA INC	7500	O	P	Lea	P	B	8	20	S	37	E	660	N	1650	E
30-025-06011	BERTIE WHITMIRE	1	OXY USA INC	3882	G	P	Lea	P	G	8	20	S	37	E	1980	N	1980	E
30-025-06017	E M E SWD	8	RICE OPERATING COMPANY	5710	SWD	A	Lea	P	G	8	20	S	37	E	1980	N	2310	E
30-025-06014	BERTIE WHITMIRE	4	GULF OIL CORP	3881	O	P	Lea	P	H	8	20	S	37	E	1980	N	660	E
30-025-20686	BERTIE WHITMIRE	9	OXY USA INC	3845	G	A	Lea	P	H	8	20	S	37	E	1980	N	330	E
30-025-06032	T ANDERSON	2	TEXACO EXPL & PROD INC	3880	O	P	Lea	P	I	8	20	S	37	E	1980	S	660	E
30-025-25292	THEODORE ANDERSON	13	CHEVRON U S A INC	6963	O	P	Lea	P	I	8	20	S	37	E	2223	S	853	E
30-025-33296	T ANDERSON	5	CHEVRON U S A INC	5850	O	P	Lea	P	I	8	20	S	37	E	1650	S	430	E
30-025-06030	T ANDERSON	1	TEXACO EXPL & PROD INC	3877	O	P	Lea	S	J	8	20	S	37	E	1980	S	1980	E
30-025-06031	T ANDERSON	3	CHEVRON U S A INC	5746	O	P	Lea	P	J	8	20	S	37	E	2173	S	2173	E
30-025-33236	THEODORE ANDERSON	10	CHEVRON U S A INC	6950	O	P	Lea	S	P	8	20	S	37	E	990	S	515	E
30-025-06035	V LAUGHLIN	2	APACHE CORP	3861	G	P	Lea	P	C	9	20	S	37	E	660	N	1980	W
30-025-36675	V LAUGHLIN	5	APACHE CORP	8760	O	A	Lea	P	C	9	20	S	37	E	330	N	1980	W
30-025-39899	V LAUGHLIN	8	APACHE CORP	7714	O	A	Lea	P	C	9	20	S	37	E	950	N	2310	W
30-025-06034	V LAUGHLIN	1	HESS CORPORATION	3860	O	P	Lea		D	9	20	S	37	E	660	N	560	W
30-025-37114	V LAUGHLIN	6	APACHE CORP	4597	O	P	Lea	P	D	9	20	S	37	E	805	N	350	W
30-025-39587	V LAUGHLIN	7	APACHE CORP	7700	O	A	Lea	P	D	9	20	S	37	E	330	N	330	W
30-025-40147	V LAUGHLIN	9	APACHE CORP	7700	O	A	Lea	P	D	9	20	S	37	E	990	N	940	W
30-025-06038	NORTH MONUMENT G/SA UNIT	5	APACHE CORP	3883	O	A	Lea	P	E	9	20	S	37	E	1980	N	660	W
30-025-33141	W H LAUGHLIN	7	APACHE CORP	6800	O	A	Lea	S	E	9	20	S	37	E	2310	N	940	W
30-025-39905	W H LAUGHLIN	12	APACHE CORP	7692	O	A	Lea	P	E	9	20	S	37	E	1650	N	330	W
30-025-06039	NORTH MONUMENT G/SA UNIT	6	APACHE CORP	3870	O	A	Lea	P	F	9	20	S	37	E	1980	N	1980	W
30-025-32465	W H LAUGHLIN	6	APACHE CORP	3760	G	A	Lea	P	F	9	20	S	37	E	1980	N	2250	W
30-025-34341	W H LAUGHLIN	8	APACHE CORP	7800	O	P	Lea	P	F	9	20	S	37	E	1760	N	1750	W
30-025-39909	W H LAUGHLIN	11	APACHE CORP	7700	O	A	Lea	P	F	9	20	S	37	E	2310	N	2310	W
30-025-06044	L VAN ETEN	4	CHEVRON U S A INC	3875	O	A	Lea	P	K	9	20	S	37	E	1980	S	1980	W
30-025-32896	L VAN ETEN	17	CHEVRON U S A INC	5575	G	P	Lea	P	K	9	20	S	37	E	1650	S	1650	W
30-025-06041	L VAN ETEN	1	CHEVRON U S A INC	3880	G	P	Lea	P	L	9	20	S	37	E	1980	S	660	W



30-025-06049	L VAN ETTEN	9	CHEVRON U S A INC	5365	O	P	Lea	S	L	9	20	S	37	E	1650	S	990	W
30-025-32881	L VAN ETTEN	16	CHEVRON U S A INC	6000	O	P	Lea	P	L	9	20	S	37	E	1955	S	940	W
30-025-32518	L VAN ETTEN	14	CHEVRON U S A INC	7308	O	A	Lea	P	M	9	20	S	37	E	990	S	990	W

## DISPOSAL WELL

30-025-36529	COOPER 8	2	CIMAREX ENERGY CO. of COLORADO	7500	O	A	Lea	P	H	8	20	S	37	E	1850	N	630	E
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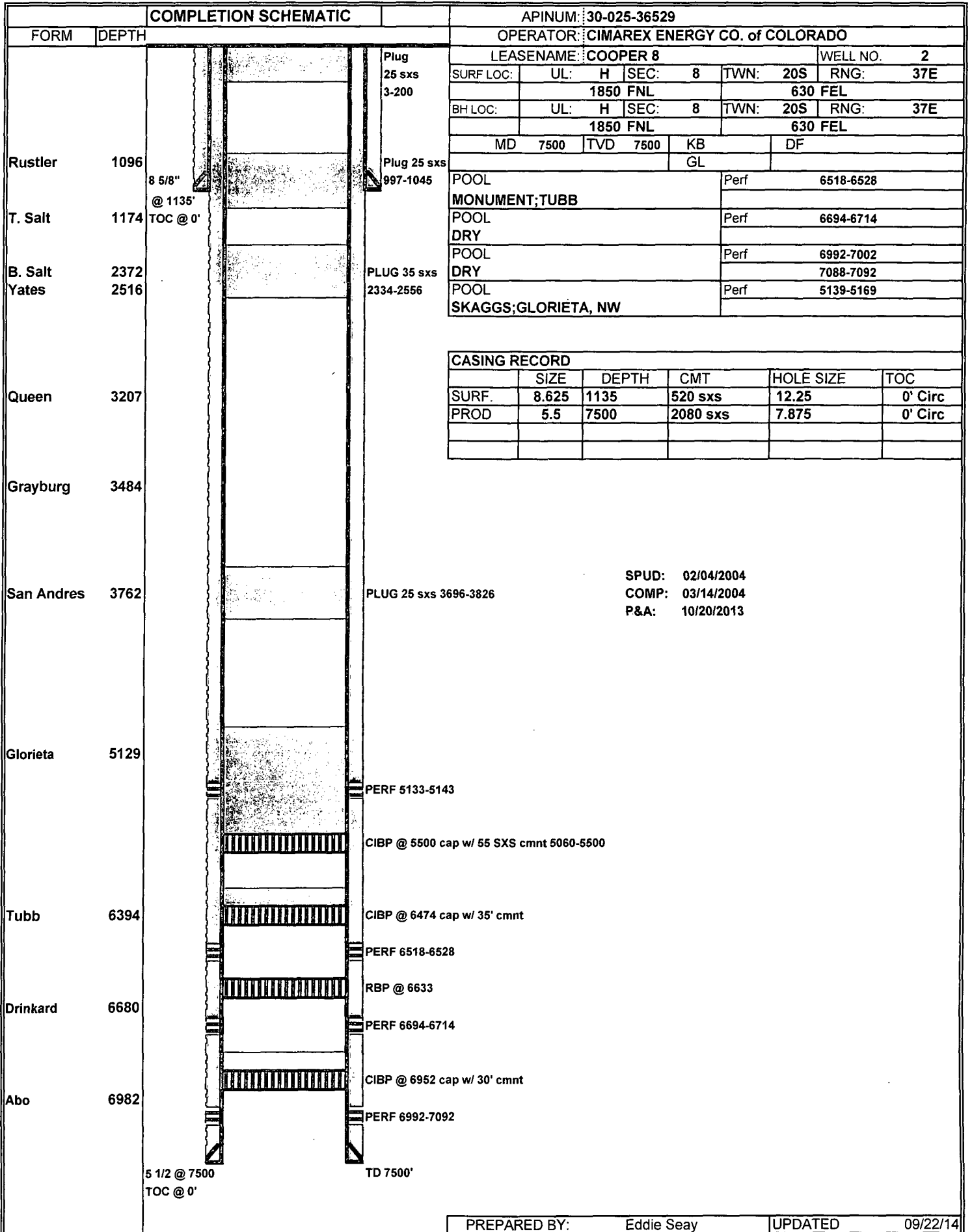
Wells within 0.5 miles of proposed disposal well that penetrate the proposed disposal interval.

5280

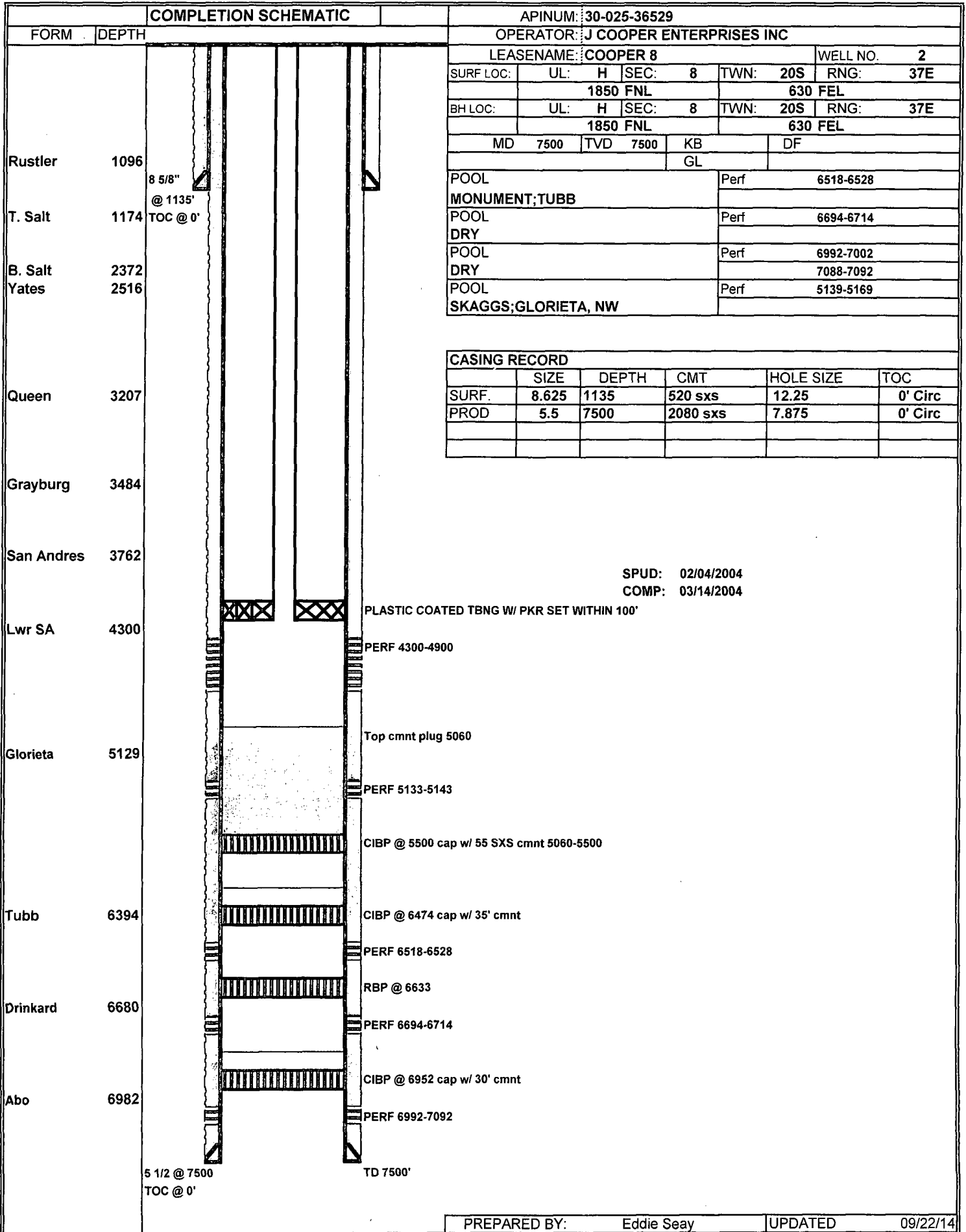
5280

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STATUS	CO	LAND	U/L	SEC	TWN		RNG	N/S		E/W		
30-025-35870	LAUGHLIN	8	CIMAREX ENERGY CO. of COLORADO	6800	O	A	Lea	P	M	4	20	S	37	E	330	S	700	W
30-025-36147	LAUGHLIN 8	1	CIMAREX ENERGY CO. of COLORADO	7500	O	A	Lea	P	A	8	20	S	37	E	660	N	990	E
30-025-06016	BERTIE WHITMIRE	6	OXY USA INC	7500	O	A	Lea	P	B	8	20	S	37	E	990	N	2310	E
30-025-36331	BERTIE WHITMIRE	11	OXY USA INC	7500	O	P	Lea	P	B	8	20	S	37	E	660	N	1650	E
30-025-06017	E M E SWD	8	RICE OPERATING COMPANY	5710	SWD	A	Lea	P	G	8	20	S	37	E	1980	N	2310	E
30-025-25292	THEODORE ANDERSON	13	CHEVRON U S A INC	6963	O	P	Lea	P	I	8	20	S	37	E	2223	S	853	E
30-025-33296	T ANDERSON	5	CHEVRON U S A INC	5850	O	P	Lea	P	I	8	20	S	37	E	1650	S	430	E
30-025-06031	T ANDERSON	3	CHEVRON U S A INC	5746	O	P	Lea	P	J	8	20	S	37	E	2173	S	2173	E
30-025-33236	THEODORE ANDERSON	10	CHEVRON U S A INC	6950	O	P	Lea	S	P	8	20	S	37	E	990	S	515	E
30-025-06035	V LAUGHLIN	2	APACHE CORP	3861	G	P	Lea	P	C	9	20	S	37	E	660	N	1980	W
30-025-36675	V LAUGHLIN	5	APACHE CORP	8760	O	A	Lea	P	C	9	20	S	37	E	330	N	1980	W
30-025-39899	V LAUGHLIN	8	APACHE CORP	7714	O	A	Lea	P	C	9	20	S	37	E	950	N	2310	W
30-025-37114	V LAUGHLIN	6	APACHE CORP	4597	O	P	Lea	P	D	9	20	S	37	E	805	N	350	W
30-025-39587	V LAUGHLIN	7	APACHE CORP	7700	O	A	Lea	P	D	9	20	S	37	E	330	N	330	W
30-025-40147	V LAUGHLIN	9	APACHE CORP	7700	O	A	Lea	P	D	9	20	S	37	E	990	N	940	W
30-025-33141	W H LAUGHLIN	7	APACHE CORP	6800	O	A	Lea	S	E	9	20	S	37	E	2310	N	940	W
30-025-39905	W H LAUGHLIN	12	APACHE CORP	7692	O	A	Lea	P	E	9	20	S	37	E	1650	N	330	W
30-025-34341	W H LAUGHLIN	8	APACHE CORP	7800	O	P	Lea	P	F	9	20	S	37	E	1760	N	1750	W
30-025-39909	W H LAUGHLIN	11	APACHE CORP	7700	O	A	Lea	P	F	9	20	S	37	E	2310	N	2310	W
30-025-32896	L VAN ETEN	17	CHEVRON U S A INC	5575	G	P	Lea	P	K	9	20	S	37	E	1650	S	1650	W
30-025-06049	L VAN ETEN	9	CHEVRON U S A INC	5365	O	P	Lea	S	L	9	20	S	37	E	1650	S	990	W
30-025-32881	L VAN ETEN	16	CHEVRON U S A INC	6000	O	P	Lea	P	L	9	20	S	37	E	1955	S	940	W
30-025-32518	L VAN ETEN	14	CHEVRON U S A INC	7308	O	A	Lea	P	M	9	20	S	37	E	990	S	990	W

# WELLBORE SCHEMATIC AND HISTORY



**AFTER WELLBORE SCHEMATIC AND HISTORY**



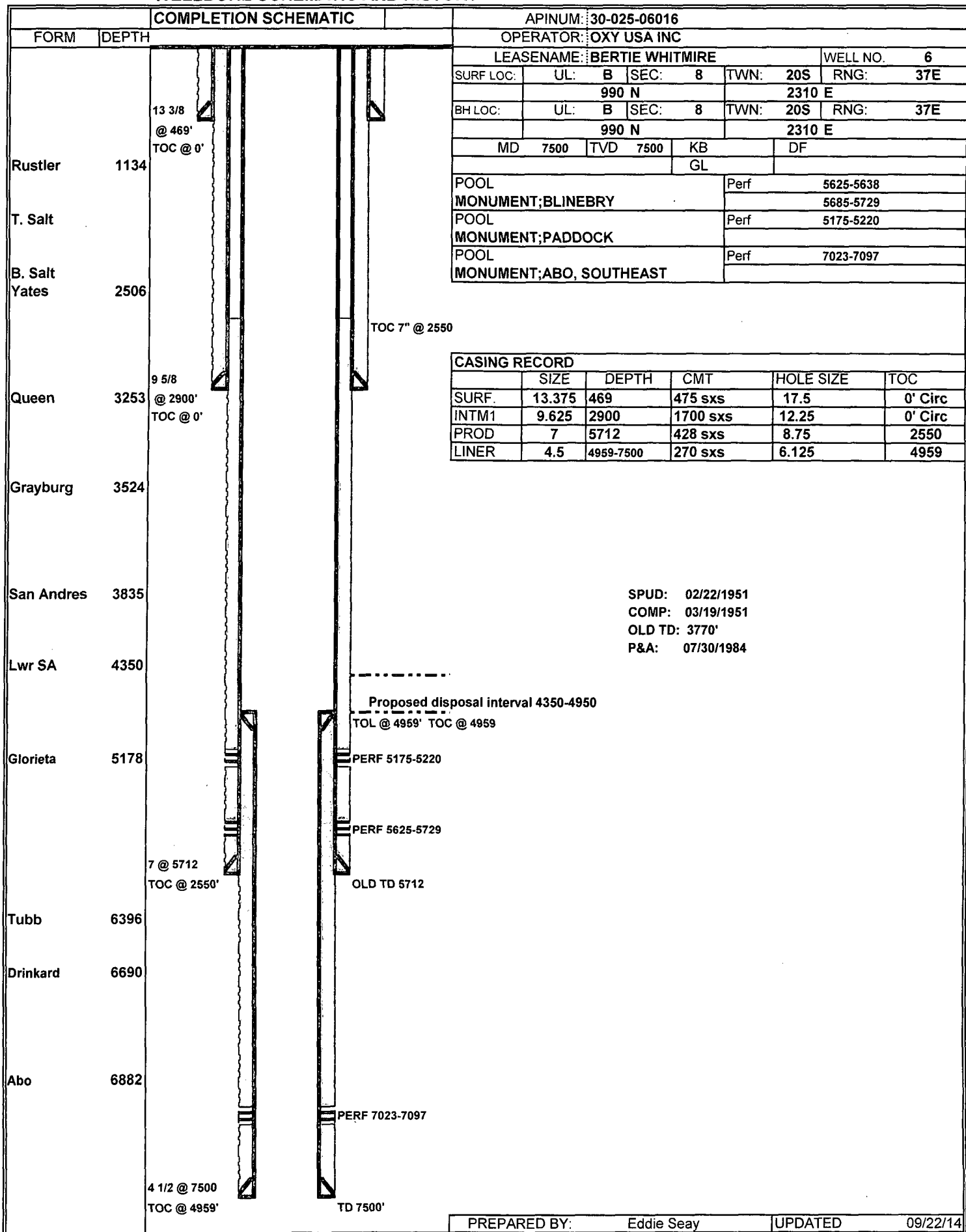
# WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		APINUM: 30-025-35870
FORM	DEPTH	OPERATOR: CIMAREX ENERGY CO. of COLORADO
		LEASENAME: LAUGHLIN <span style="float: right;">WELL NO. 8</span>
		SURF LOC: UL: M SEC: 4 TWN: 20S RNG: 37E 330 S 700 W
		BH LOC: UL: M SEC: 4 TWN: 20S RNG: 37E 330 S 700 W
		MD 6800 TVD 6800 KB DF GL
Rustler	1140	POOL MONUMENT; TUBB Perf 6476-6604
T. Salt		POOL Perf
B. Salt	2375	POOL Perf
Yates	2550	POOL Perf
Queen	3270	
Grayburg	3566	DV Tool @ 3849 Stg1: 500 sxs Stg2: 750 sxs circ
		SPUD: 04/13/2002 COMP: 05/24/2002
San Andres	3820	DV Tool @ 4101 Stg1: 825 sxs circ Stg2: 2475 sxs circ
Lwr SA	4320	TOC Stg1: 4130' Cal  Proposed disposal interval 4320-4980
Glorieta	5213	
Paddock	5304	
Blinebry	5741	
Tubb	6358	PERF 6476-6604
Drinkard	6678	PBDT 6771
Abo		TD 6800
		8 5/8" @ 1150' TOC @ 0'
		5 1/2 @ 6800 TOC @ 0'

CASING RECORD					
	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	8.625	1226	560 sxs	12.25	0' Circ
PROD	5.5	6800	1250 sxs	7.875	0' Circ



# WELLBORE SCHEMATIC AND HISTORY



## COMPLETION SCHEMATIC

FORM	DEPTH
Rustler	1134
T. Salt	
B. Salt Yates	2506
Queen	3253
Grayburg	3524
San Andres	3835
Lwr SA	4350
Glorieta	5178
Tubb	6396
Drinkard	6690
Abo	6882

13 3/8 @ 469' TOC @ 0'

9 5/8 @ 2900' TOC @ 0'

7 @ 5712 TOC @ 2550'

4 1/2 @ 7500 TOC @ 4959'

TOC 7" @ 2550

Proposed disposal interval 4350-4950  
TOL @ 4959' TOC @ 4959

PERF 5175-5220

PERF 5625-5729

OLD TD 5712

PERF 7023-7097

TD 7500'

APINUM: 30-025-06016

OPERATOR: OXY USA INC

LEASENAME: BERTIE WHITMIRE WELL NO. 6

SURF LOC: UL: B SEC: 8 TWN: 20S RNG: 37E

990 N 2310 E

BH LOC: UL: B SEC: 8 TWN: 20S RNG: 37E

990 N 2310 E

MD 7500 TVD 7500 KB DF

POOL MONUMENT;BLINEBRY Perf 5625-5638

5685-5729

POOL MONUMENT;PADDOCK Perf 5175-5220

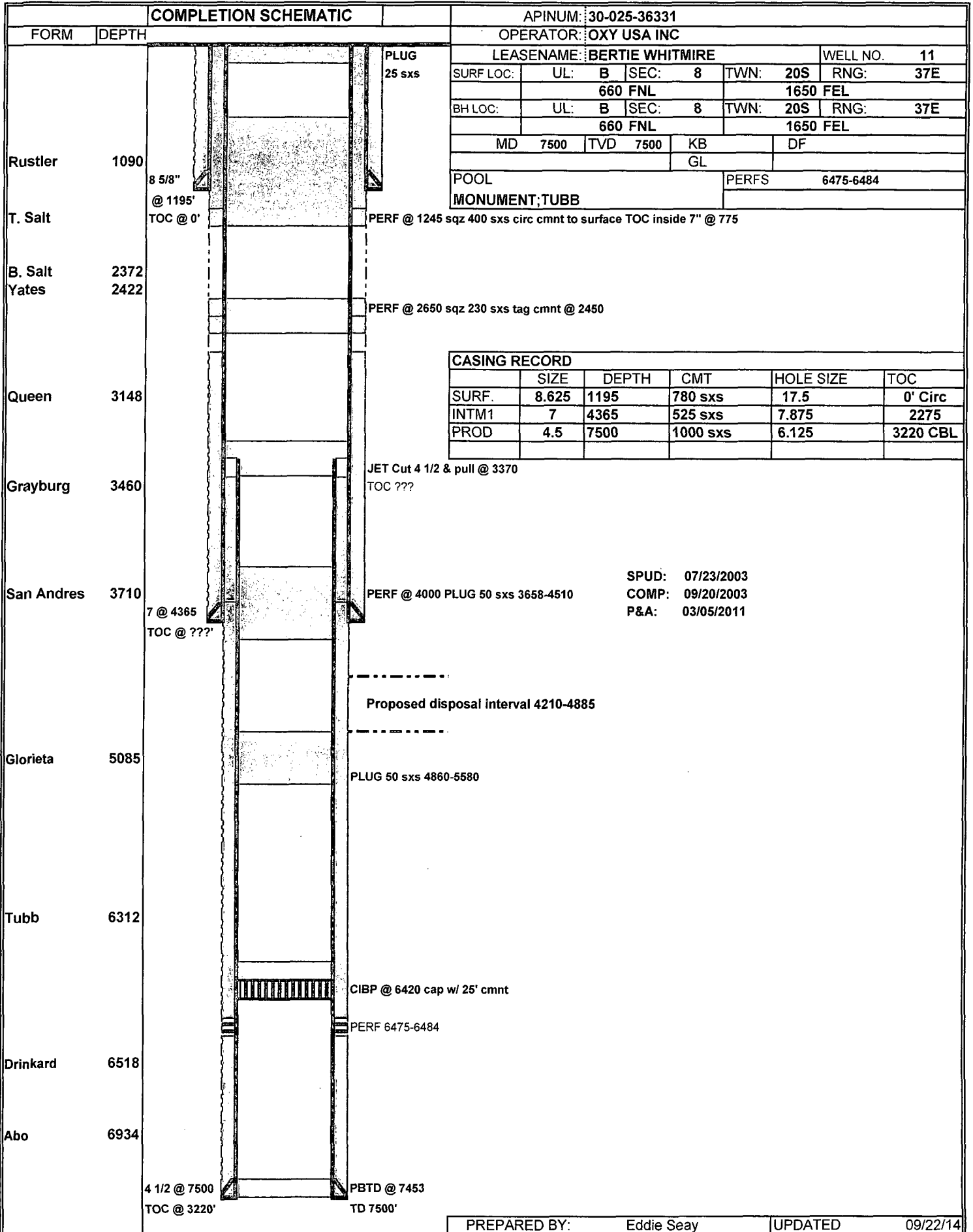
POOL MONUMENT;ABO, SOUTHEAST Perf 7023-7097

### CASING RECORD

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	13.375	469	475 sxs	17.5	0' Circ
INTM1	9.625	2900	1700 sxs	12.25	0' Circ
PROD	7	5712	428 sxs	8.75	2550
LINER	4.5	4959-7500	270 sxs	6.125	4959

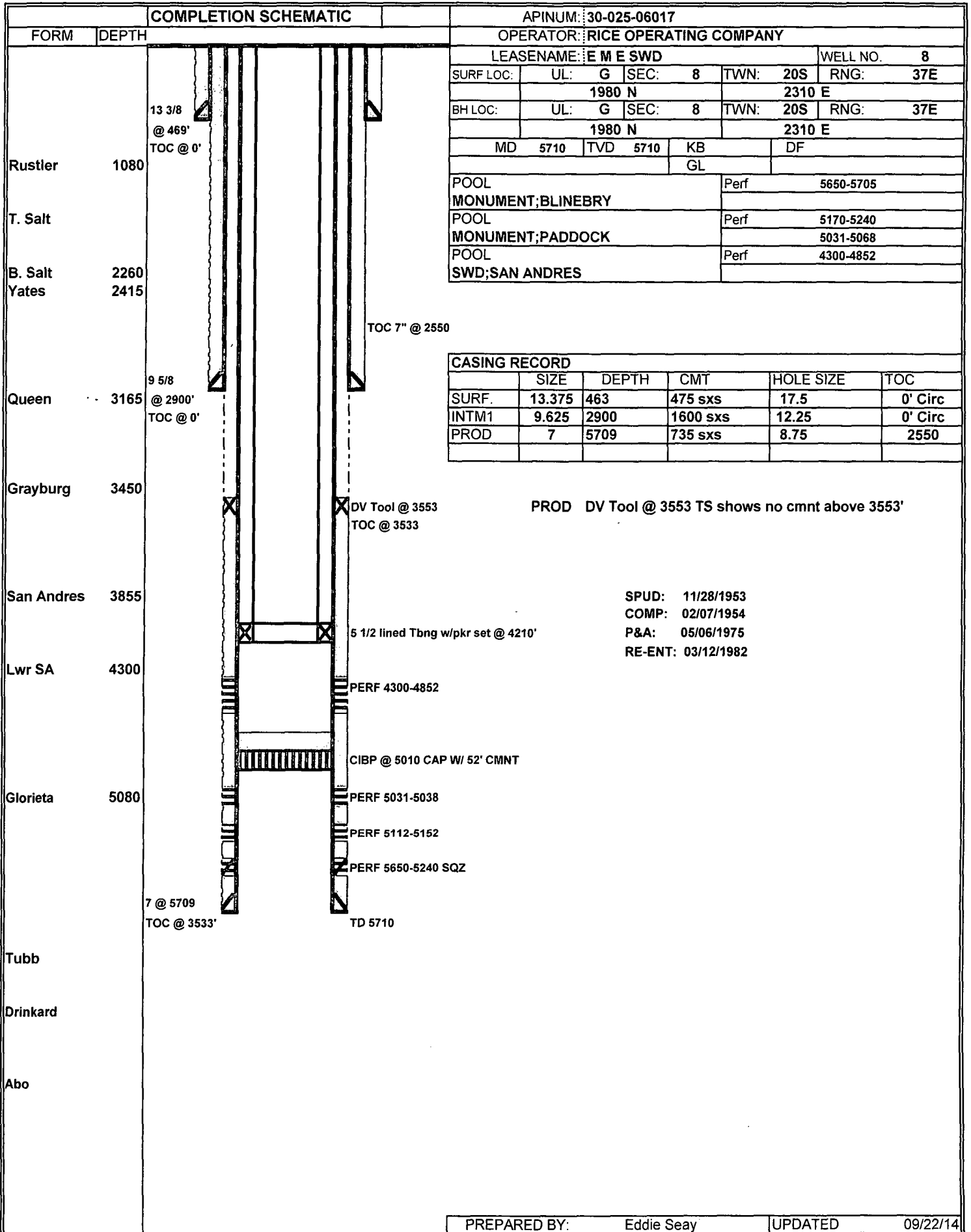
SPUD: 02/22/1951  
COMP: 03/19/1951  
OLD TD: 3770'  
P&A: 07/30/1984

# WELLBORE SCHEMATIC AND HISTORY

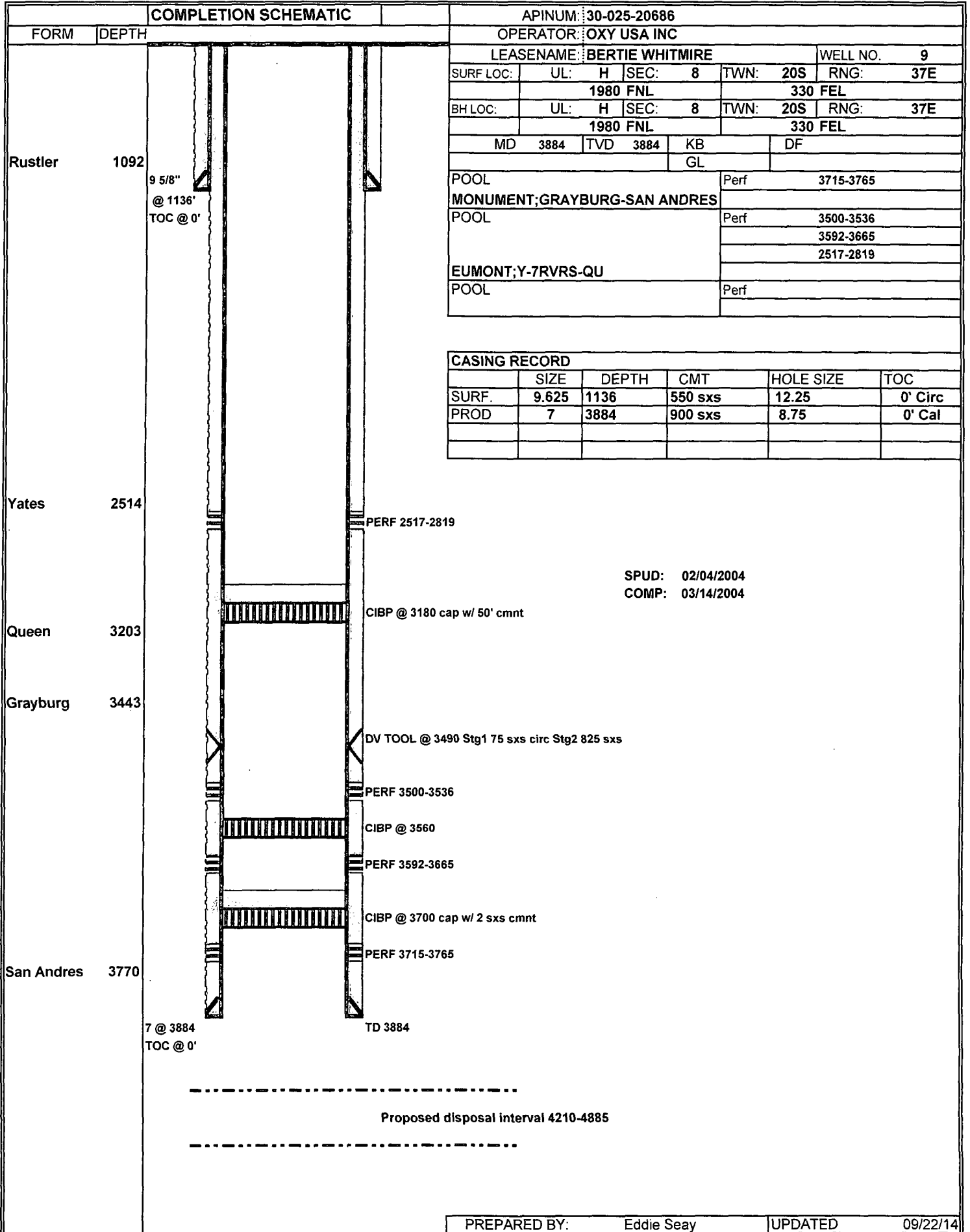




# WELLBORE SCHEMATIC AND HISTORY

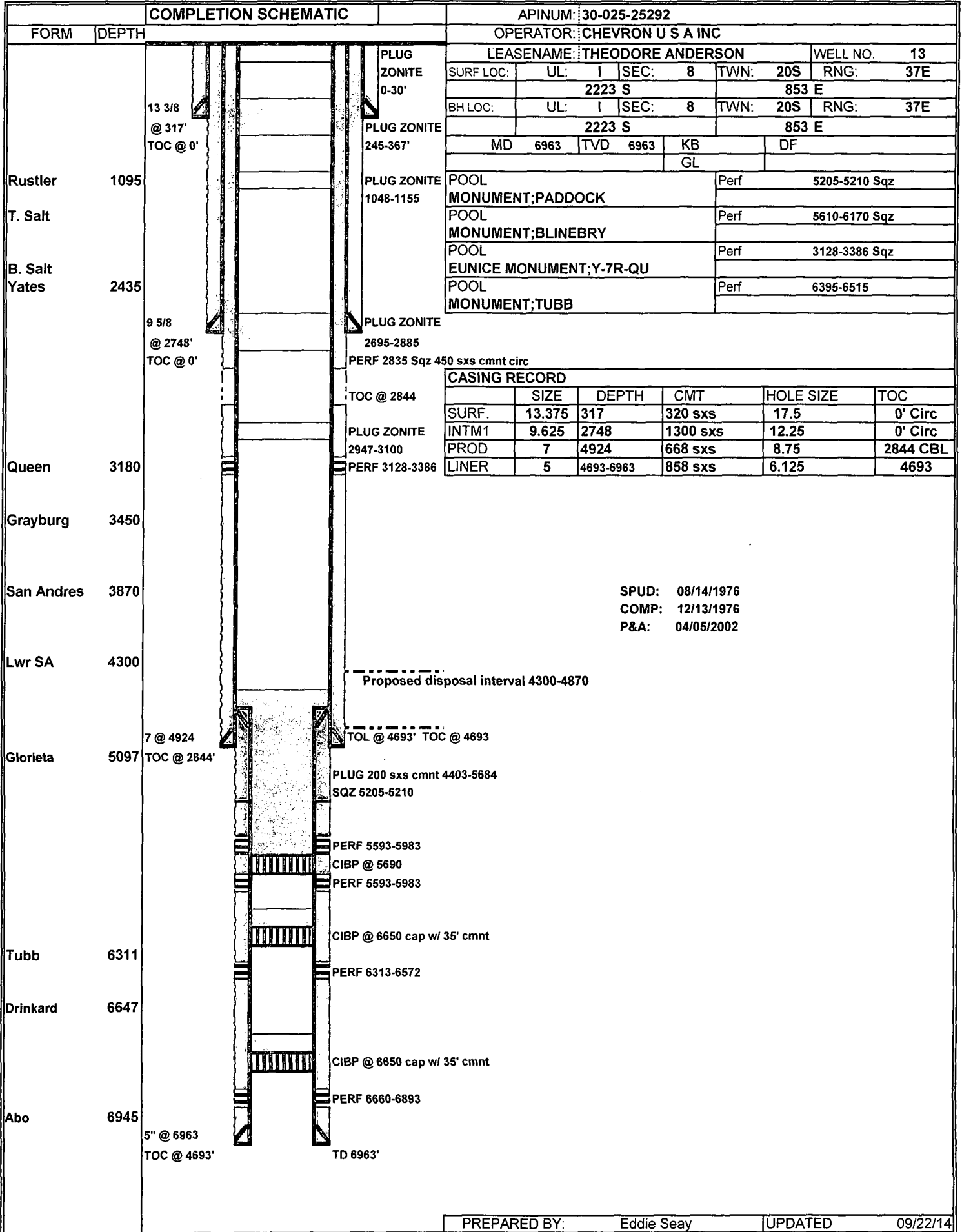


# WELLBORE SCHEMATIC AND HISTORY

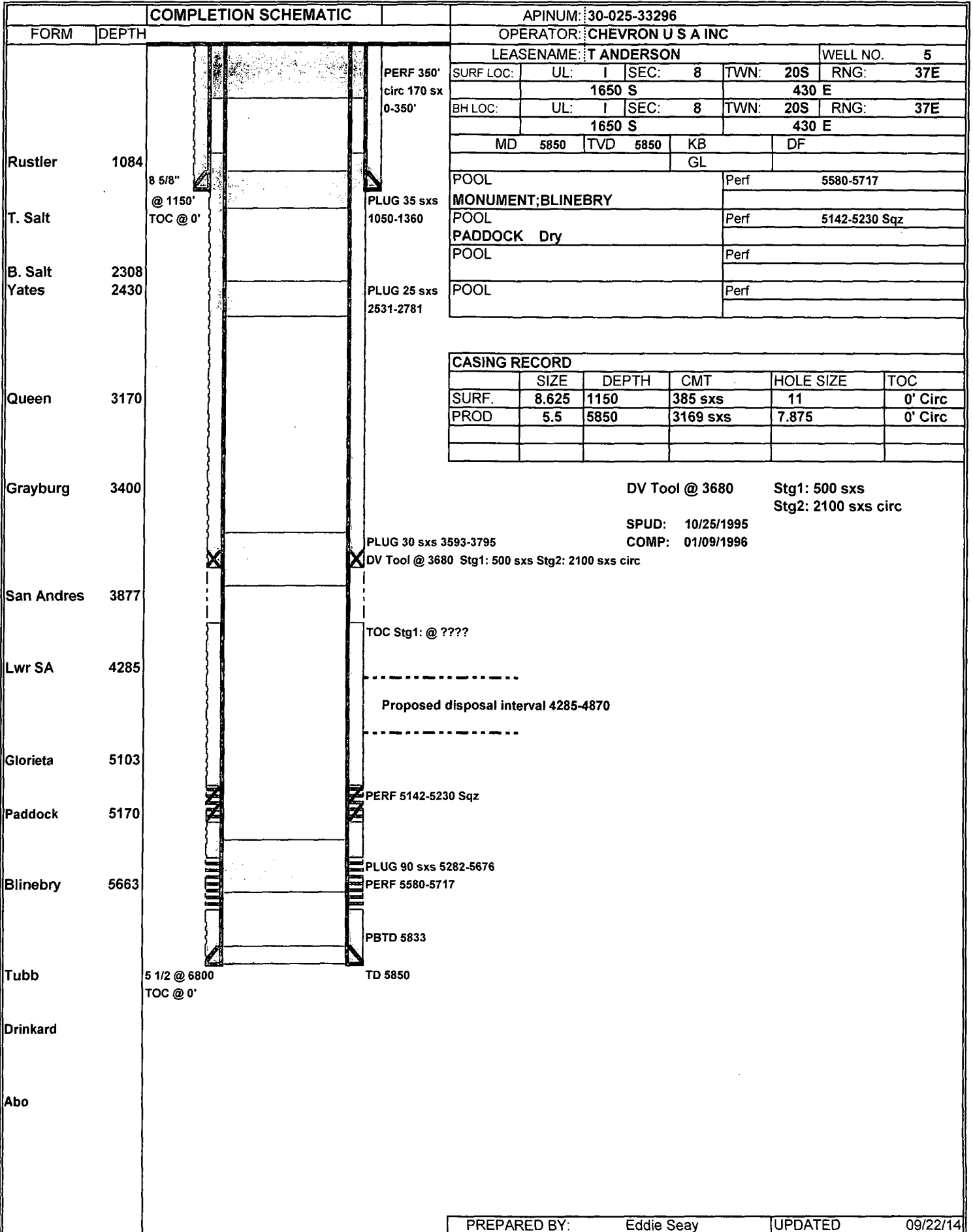


-----  
Proposed disposal interval 4210-4885  
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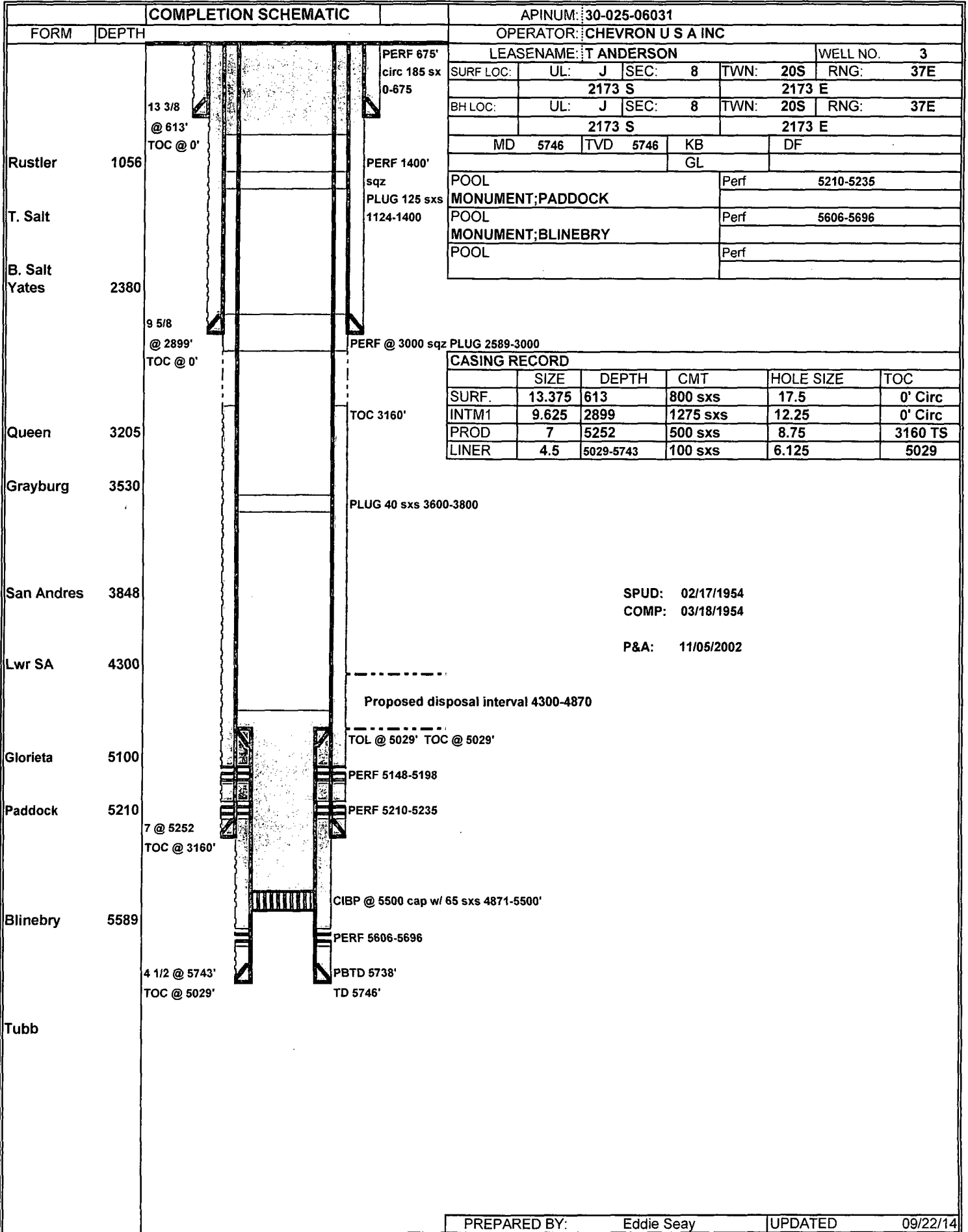
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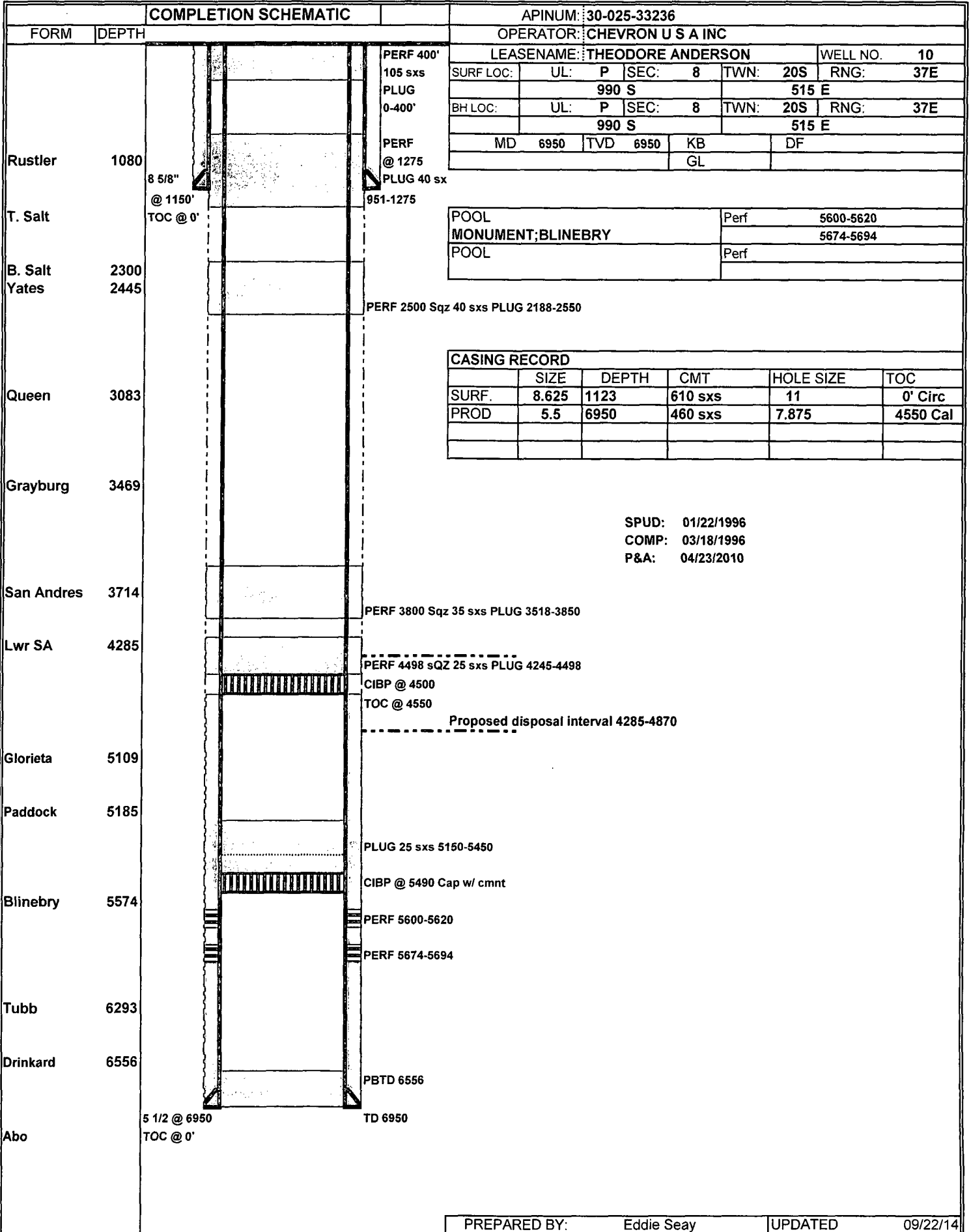
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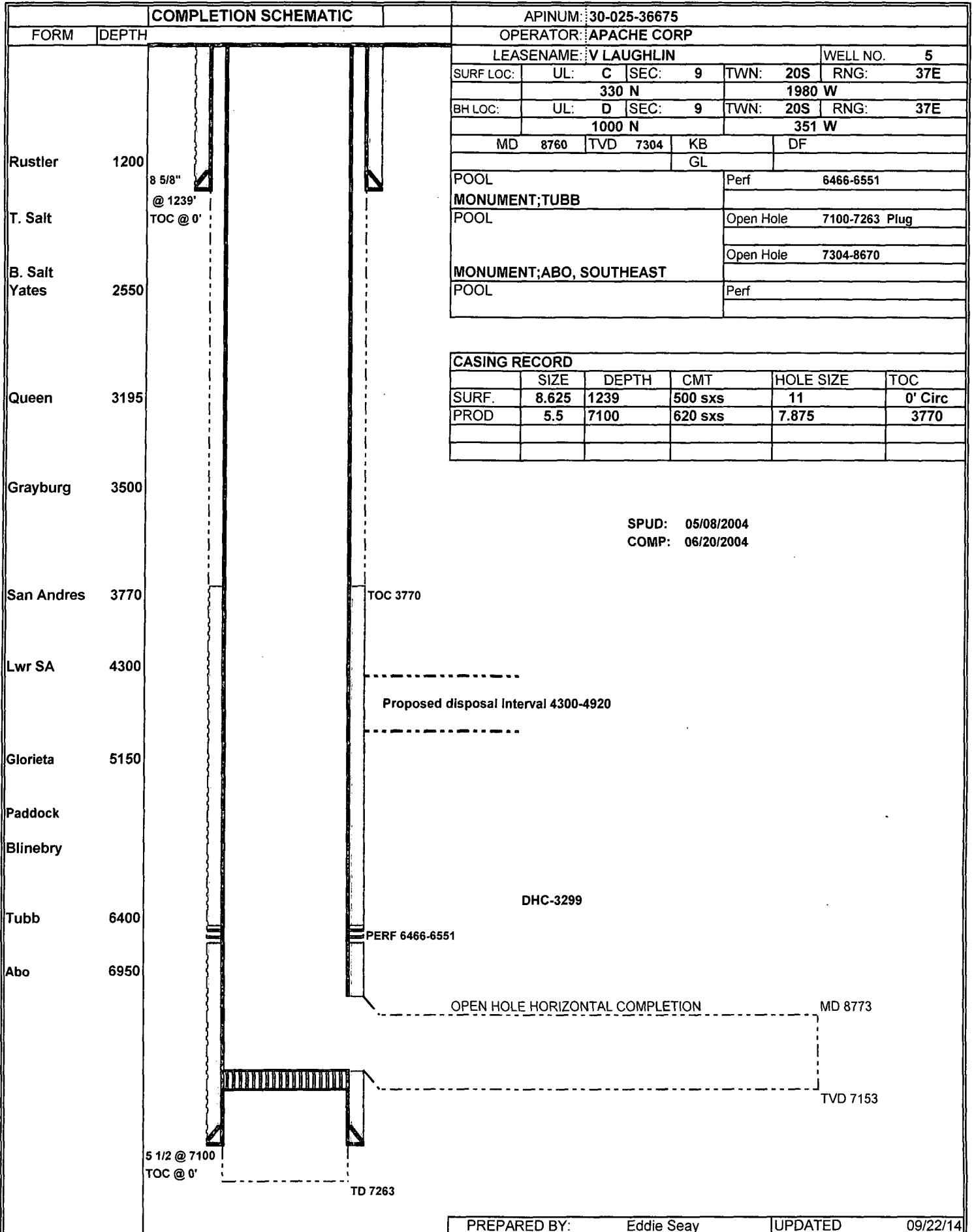
# WELLBORE SCHEMATIC AND HISTORY



# WELLBORE SCHEMATIC AND HISTORY



# WELLBORE SCHEMATIC AND HISTORY

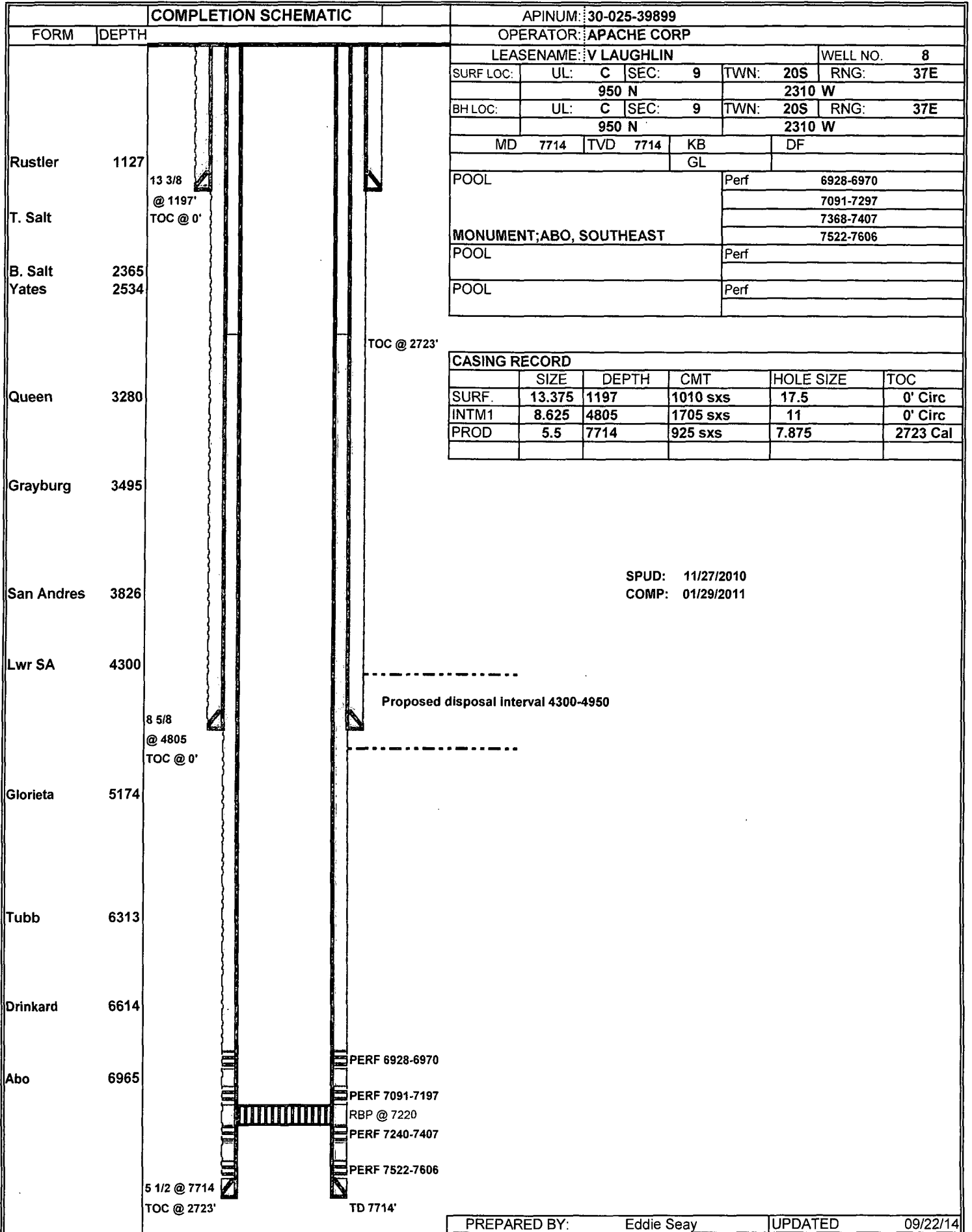


APINUM: 30-025-36675	
OPERATOR: APACHE CORP	
LEASENAME: V LAUGHLIN	
WELL NO. 5	
SURF LOC: UL: C SEC: 9 TWN: 20S	RNG: 37E
330 N 1980 W	
BH LOC: UL: D SEC: 9 TWN: 20S	RNG: 37E
1000 N 351 W	
MD 8760 TVD 7304	KB DF
	GL
POOL MONUMENT;TUBB	Perf 6466-6551
POOL	Open Hole 7100-7263 Plug
	Open Hole 7304-8670
POOL MONUMENT;ABO, SOUTHEAST	
POOL	Perf

CASING RECORD					
	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	8.625	1239	500 sxs	11	0' Circ
PROD	5.5	7100	620 sxs	7.875	3770

SPUD: 05/08/2004  
 COMP: 06/20/2004

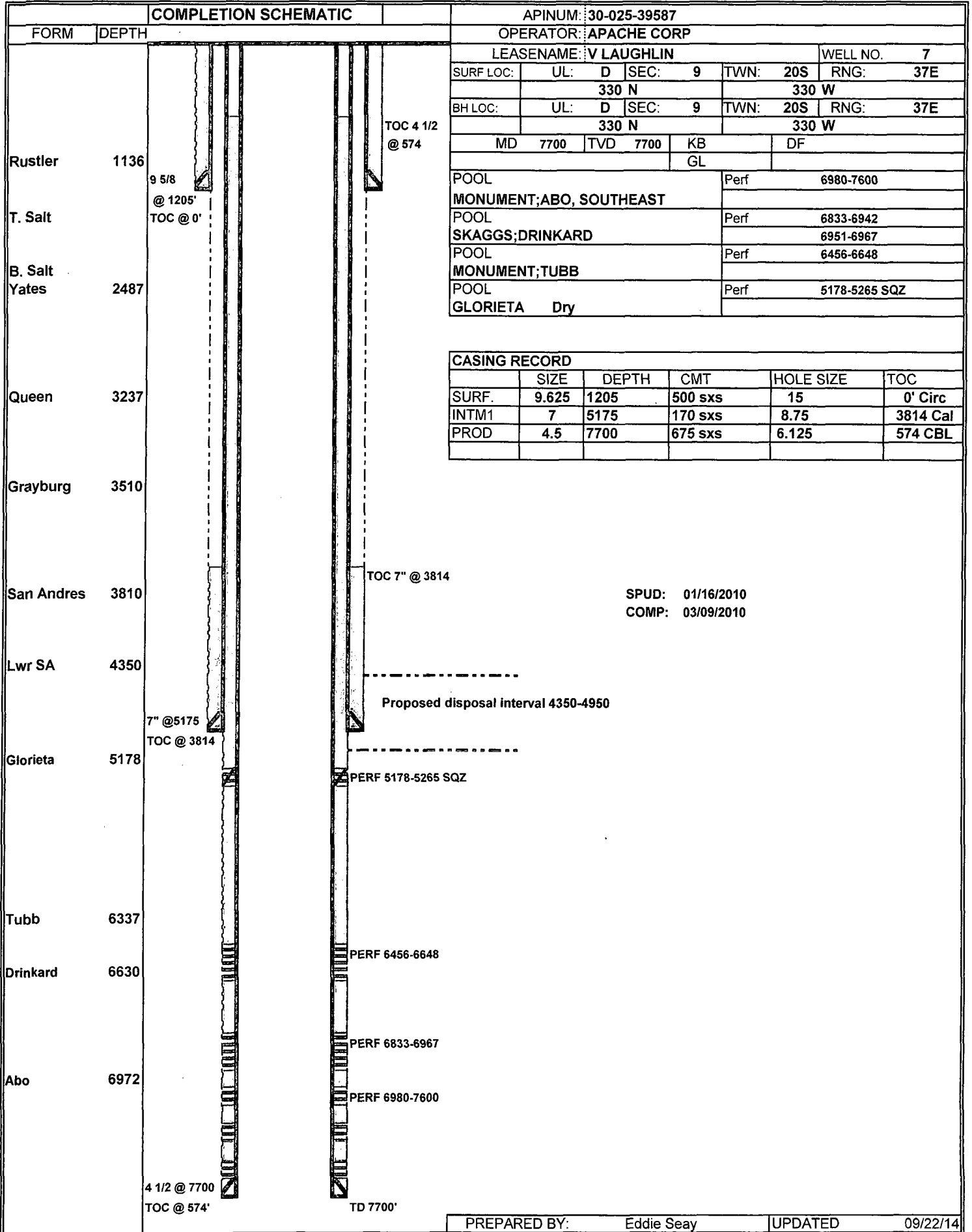
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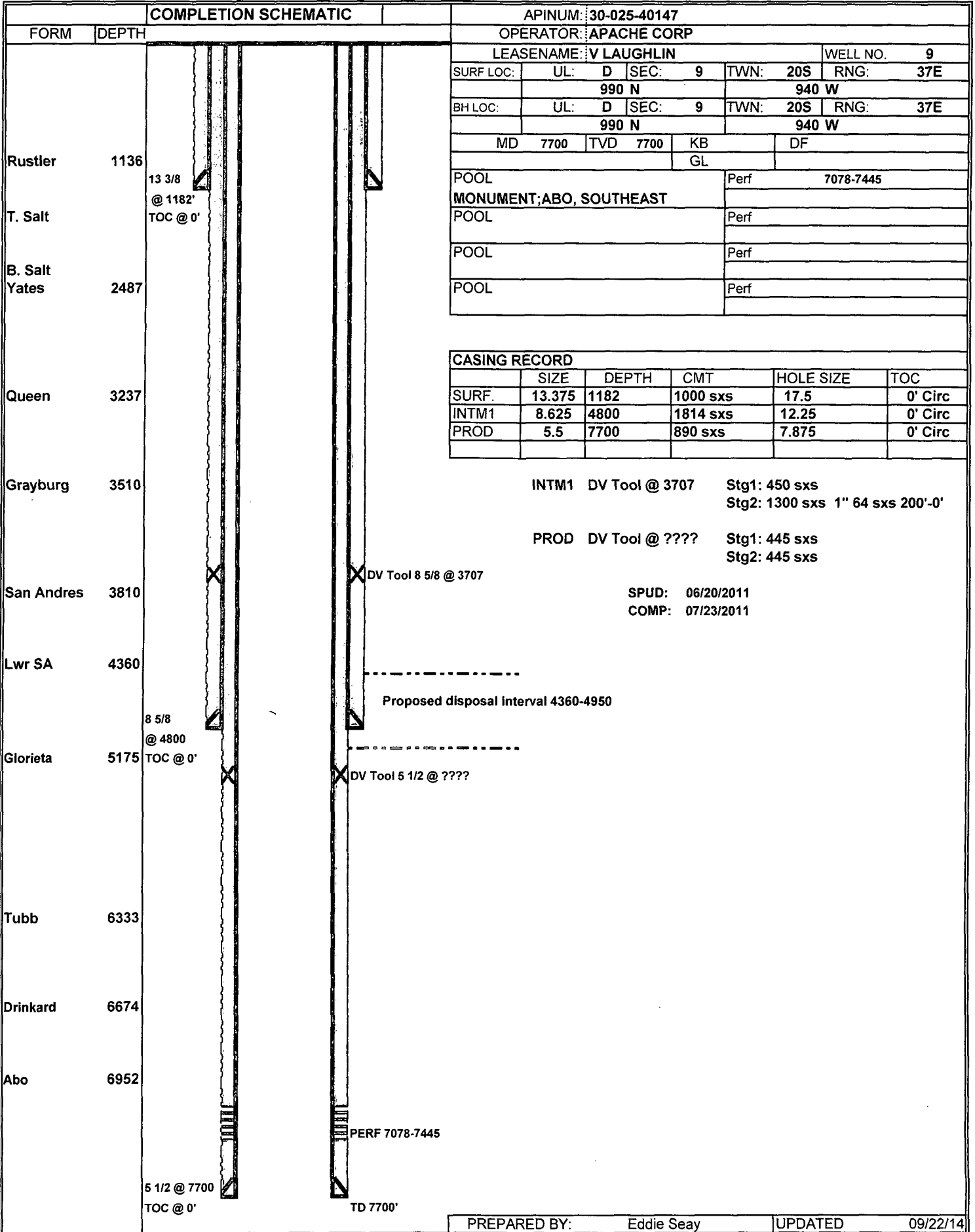




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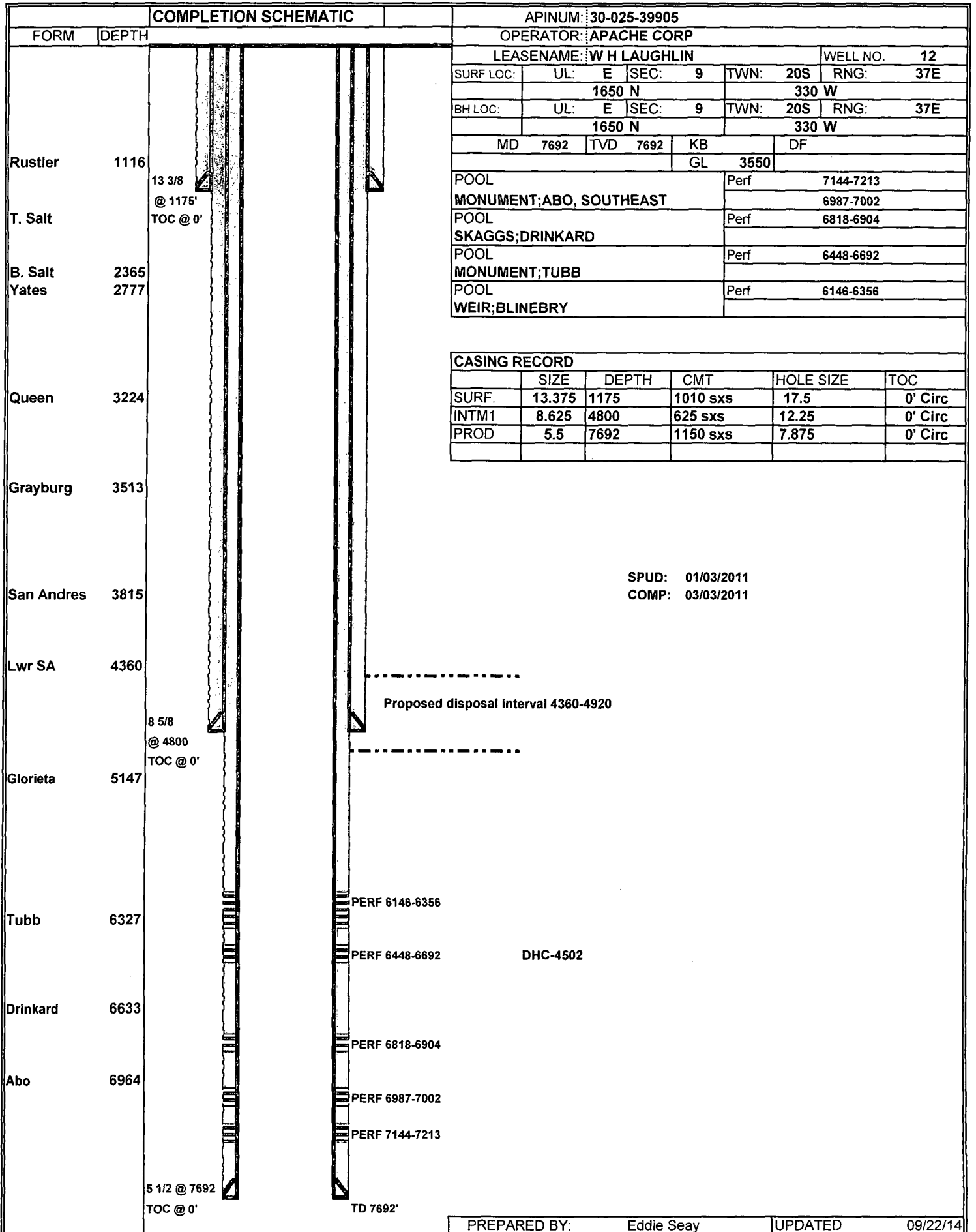


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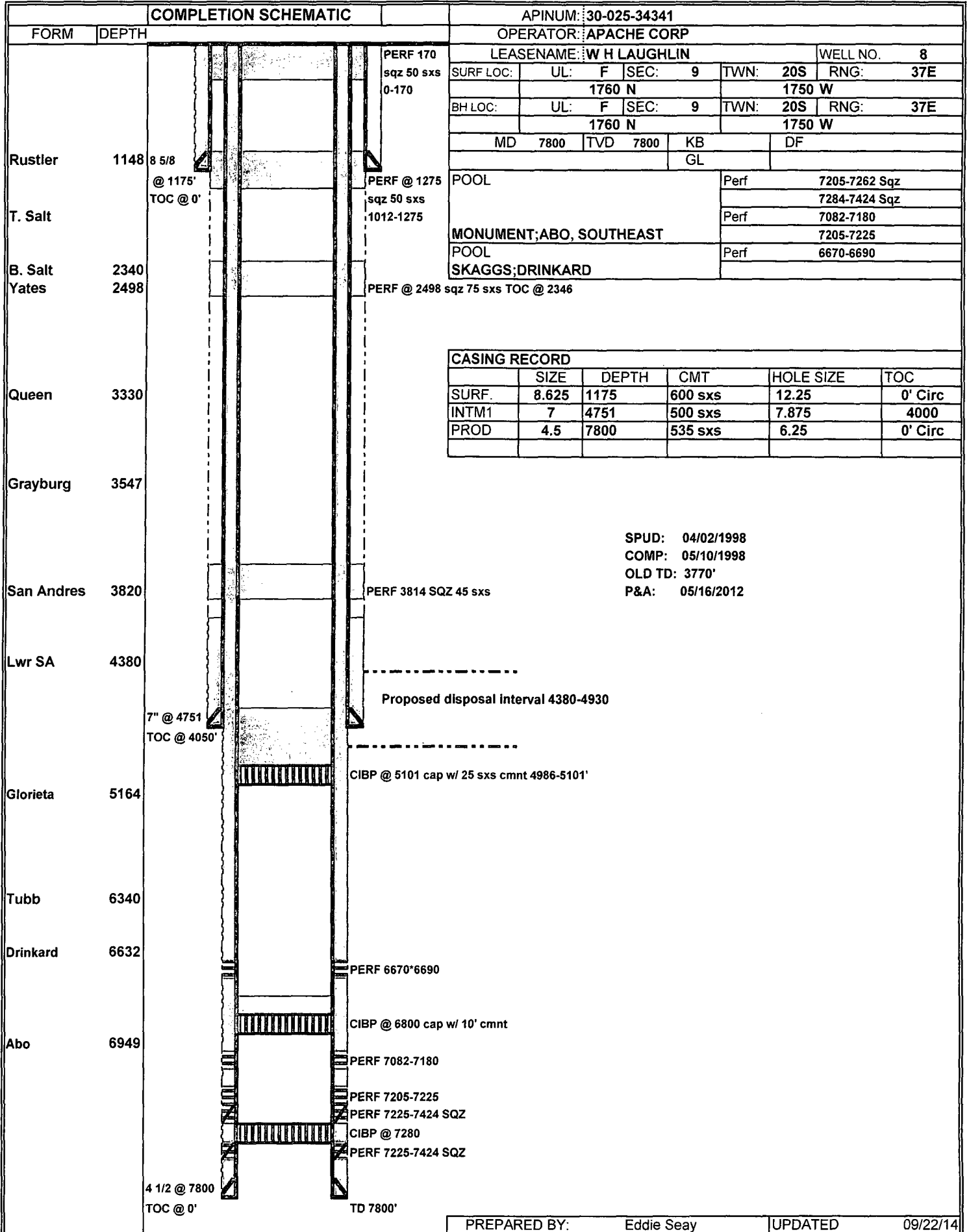




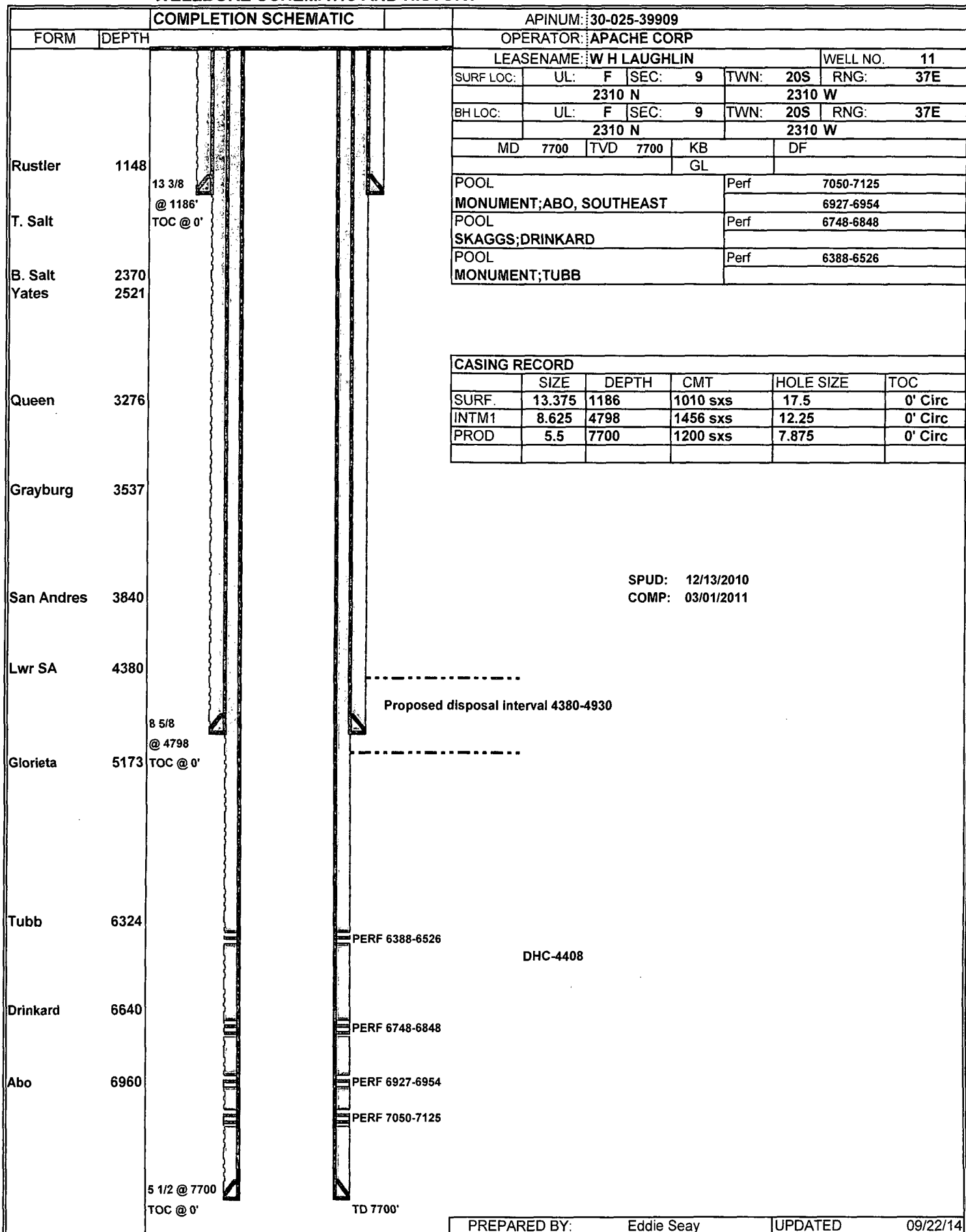
# WELLBORE SCHEMATIC AND HISTORY



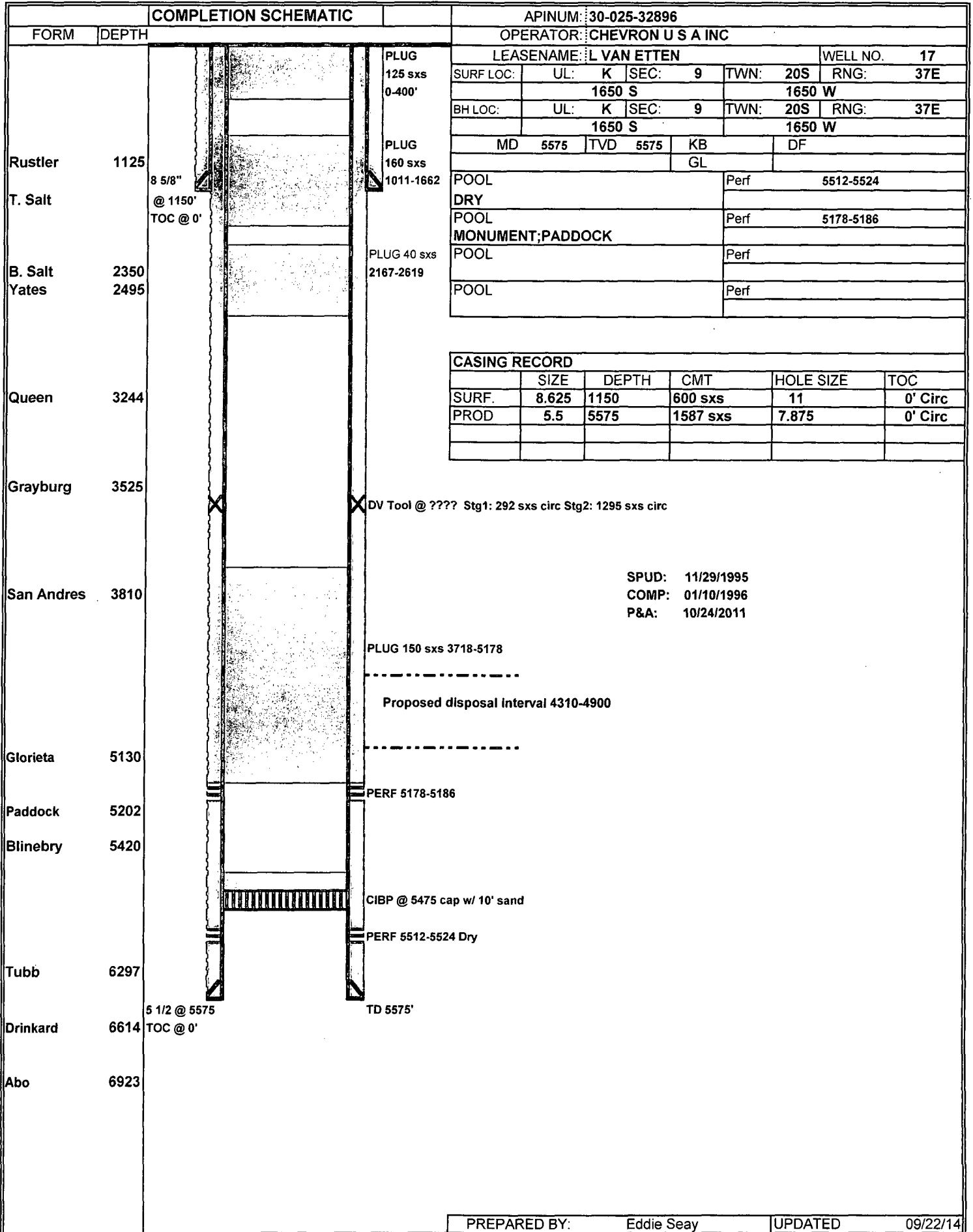
# WELLBORE SCHEMATIC AND HISTORY



# WELLBORE SCHEMATIC AND HISTORY



# WELLBORE SCHEMATIC AND HISTORY

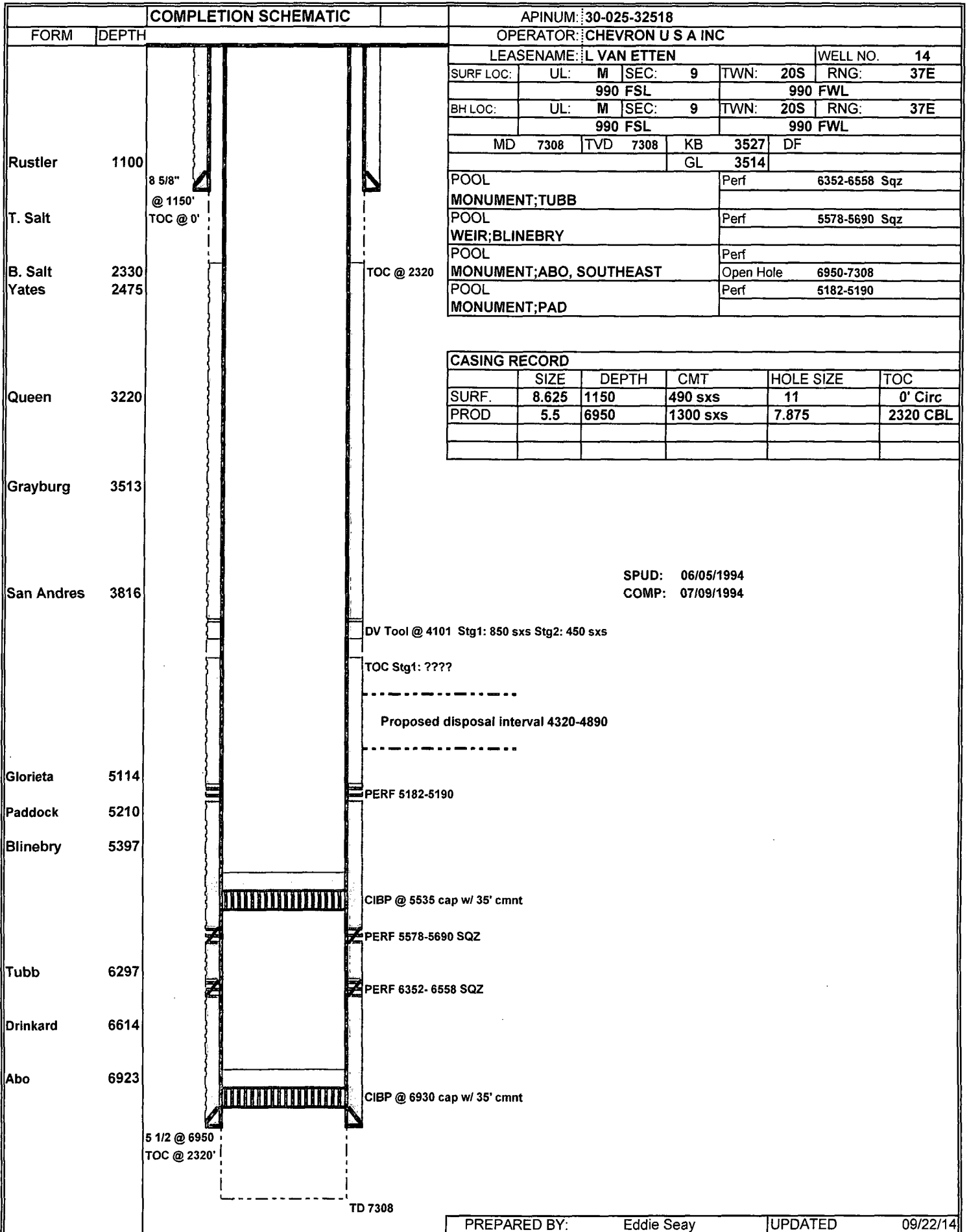








# WELLBORE SCHEMATIC AND HISTORY



## COMPLETION SCHEMATIC

APINUM: 30-025-32518

FORM DEPTH

OPERATOR: CHEVRON U S A INC

LEASENAME: L VAN ETTEN

WELL NO. 14

SURF LOC:	UL: M	SEC: 9	TWN: 20S	RNG: 37E
-----------	-------	--------	----------	----------

990 FSL 990 FWL

BH LOC:	UL: M	SEC: 9	TWN: 20S	RNG: 37E
---------	-------	--------	----------	----------

990 FSL 990 FWL

MD 7308	TVD 7308	KB 3527	DF
---------	----------	---------	----

GL 3514

POOL MONUMENT;TUBB	Perf 6352-6558 Sqz
--------------------	--------------------

POOL WEIR;BLINEBRY	Perf 5578-5690 Sqz
--------------------	--------------------

POOL MONUMENT;ABO, SOUTHEAST	Perf
POOL MONUMENT;PAD	Open Hole 6950-7308
POOL MONUMENT;PAD	Perf 5182-5190

### CASING RECORD

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	8.625	1150	490 sxs	11	0' Circ
PROD	5.5	6950	1300 sxs	7.875	2320 CBL

SPUD: 06/05/1994

COMP: 07/09/1994

DV Tool @ 4101 Stg1: 850 sxs Stg2: 450 sxs

TOC Stg1: ????

Proposed disposal interval 4320-4890

PERF 5182-5190

CIBP @ 5535 cap w/ 35' cmnt

PERF 5578-5690 SQZ

PERF 6352- 6558 SQZ

CIBP @ 6930 cap w/ 35' cmnt

5 1/2 @ 6950

TOC @ 2320'

TD 7308

PREPARED BY: Eddie Seay

UPDATED

09/22/14

## Water Sample Analysis

Pool	Location			Chlorides
	Section	Township	Range	
North Justis Montoya	2	25S	37E	45440
North Justis McKee	2	25S	37E	58220
North Justis Fusselman	2	25S	37E	68533
North Justis Ellenburger	2	25S	37E	34151
Fowler Blinebry	22	24S	37E	116085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91600
DK Drinkard	30	20S	39E	106855
Littman San Andres	8	21S	38E	38695
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	16	20S	32E	14768
Arkansas Junction San Andres	12	18S	36E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	36494
Lovinton Abo	31	16S	37E	22933
Lovington San Andres	3	16S	37E	4899
Lovington Paddock	31	16S	37E	93720
Mesa Queen	17	16S	32E	172530
Kemnitz Wolfcamp	27	16S	34E	49345
Hume Queen	9	16S	34E	124960
Anderson Ranch Wolfcamp	2	16S	32E	11040
Anderson Ranch Devonian	11	16S	32E	25702
Anderson Ranch Unit	11	16S	32E	23786
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	6	16S	36E	38695
Dean Pemo Penn	5	16S	37E	44730
Dean Devonian	35	15S	36E	19525
South Denton Wolfcamp	26	15S	37E	54315
South Denton Devonian	36	15S	37E	34080
Medicine Rock Devonian	15	15S	38E	39760
Little Lucky-Lake Devonian	29	15S	30E	23288
Wanitz Abo	26	21S	37E	132770
Crosby Devonian	18	25S	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	23S	37E	114665
Teague Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	26S	37E	144485
House SA	11	20S	38E	93365
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	26S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30601
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	179630
Maljamar Grayburg SA	22	17S	32E	46079
Maljamar Paddock	27	17S	32E	115375
Maljamar Devonian	22	17S	32E	25418

**Analytical Results For:**

 Eddie Seay Consulting  
 601 W. Illinois  
 Hobbs NM, 88242

 Project: COOPER SWD FACILITY  
 Project Number: COOPER SWD  
 Project Manager: Eddie Seay  
 Fax To: (505) 392-6949

 Reported:  
 06-Oct-14 13:41

**JC - WW #1**  
**H402961-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories**
**Inorganic Compounds**

Alkalinity, Bicarbonate	464		5.00	mg/L	1	4090813	AP	30-Sep-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/L	1	4090813	AP	30-Sep-14	310.1	
Chloride*	920		4.00	mg/L	1	4092905	AP	30-Sep-14	4500-CL-B	
Conductivity*	3670		1.00	uS/cm	1	4100104	AP	01-Oct-14	120.1	
pH*	7.16		0.100	pH Units	1	4100103	AP	01-Oct-14	150.1	
Sulfate*	250		50.0	mg/L	5	4093005	AP	30-Sep-14	375.4	
TDS*	2330		5.00	mg/L	1	4091810	AP	30-Sep-14	160.1	
Alkalinity, Total*	380		4.00	mg/L	1	4090813	AP	30-Sep-14	310.1	

**Green Analytical Laboratories**
**Total Recoverable Metals by ICP (E200.7)**

Calcium*	227		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7	
Magnesium*	88.2		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7	
Potassium*	5.39		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7	
Sodium*	445		1.00	mg/L	1	B410009	JGS	02-Oct-14	EPA200.7	

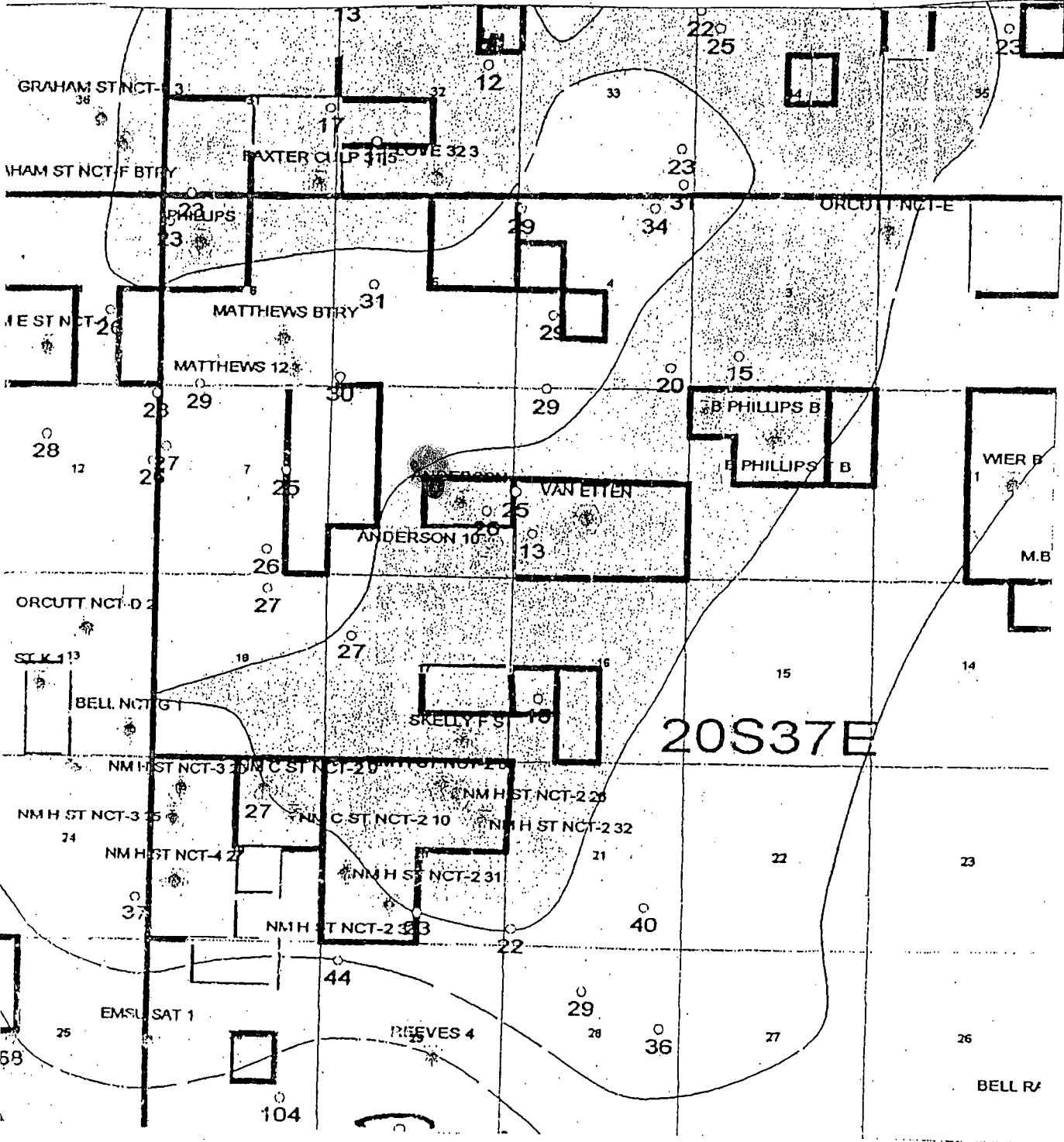
Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# Groundwater Map

## NOTICES

### LAND OWNER - DEEDED

Jimmie T. Cooper  
Box 55  
Monument, NM 88265

### OFFSET AND MINERAL OWNERS

Oxy USA Inc.  
Box 4294  
Houston, TX 77210

Rice Operating Co.  
122 West Taylor  
Hobbs, NM 88240

Cimarex Energy Co. of Colorado  
600 N. Marienfield St., Ste. 600  
Midland, TX 79701

Chevron Corp.  
ATTN: Nick Hanna  
15 Smith Rd.  
Midland, TX 79705

Apache Corp.  
303 Veterans Airpark Lane, Ste. 3000  
Midland, TX 79705

Mineral interest

● Proposed SWP  
Cooper 8

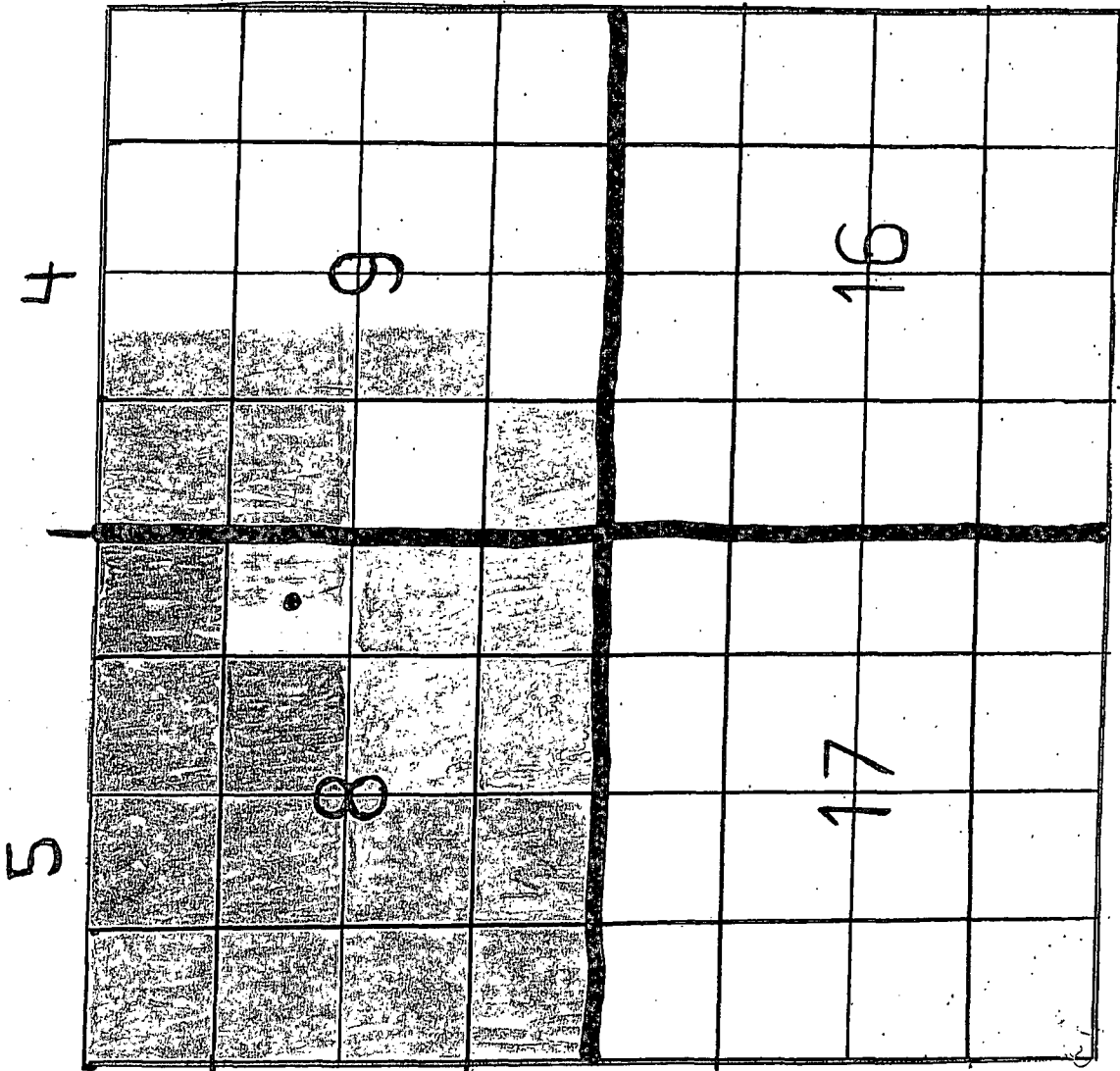
● Apache

Cimarex

● Oxy

● Chevron

● Cooper Surface  
+ Mineral





**J. COOPER ENTERPRISES INC.**

October 2014

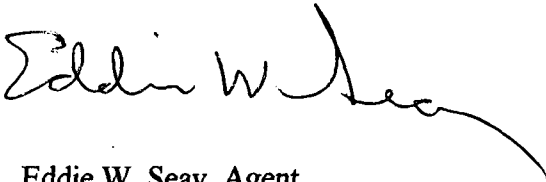
RE: Cooper 8 well #2  
Unit H, Sect. 8, T. 20 S., R. 37 E.  
API 30-025-36529

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,



Eddie W. Seay, Agent  
Eddie Seay Consulting  
601 W. Illinois  
Hobbs, NM 88242  
(575)392-2236  
[seay04@leaco.net](mailto:seay04@leaco.net)

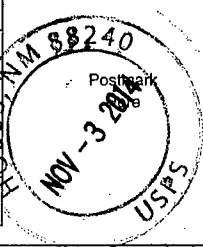
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Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 9.22



Sent To  
**Jimmy T. Cooper**  
 Street, Apt. No., or PO Box No. **Box 55**  
 City, State, ZIP+4 **Monument, NM 88265**

PS Form 3800, August 2006 See Reverse for Instructions

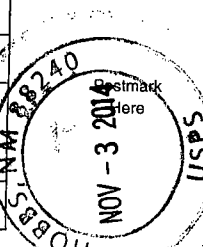
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Sent To  
**Oxy USA Inc.**  
 Street, Apt. No., or PO Box No. **Box 4294**  
 City, State, ZIP+4 **Houston, TX 77210**

PS Form 3800, August 2006 See Reverse for Instructions

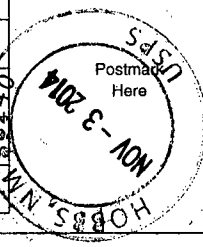
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**Cimarex Energy Co. of Colorado**  
 Street, Apt. No., or PO Box No. **600 N. Marienfield St., Ste. 600**  
 City, State, ZIP+4 **Midland, TX 79701**

PS Form 3800, August 2006 See Reverse for Instructions

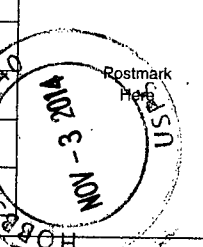
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Total Postage & Fees	\$ 9.22



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**Rice Operating Co.**  
 Street, Apt. No., or PO Box No. **22 West Taylor**  
 City, State, ZIP+4 **Hobbs, NM 88240**

PS Form 3800, August 2006 See Reverse for Instructions

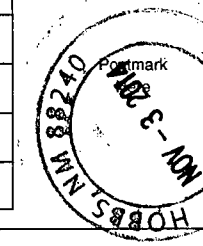
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Total Postage & Fees	\$ 9.22



Sent To  
**Chevron Corp.**  
 ATTN: Nick Hanna  
 Street, Apt. No., or PO Box No. **15 Smith Rd.**  
 City, State, ZIP+4 **Midland, TX 79705**

PS Form 3800, August 2006 See Reverse for Instructions

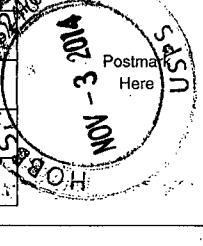
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Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 9.22



Sent To  
**Apache Corp.**  
 Street, Apt. No., or PO Box No. **303 Veterans Airpark Lane, Ste. 3000**  
 City, State, ZIP+4 **Midland, TX 79705**

PS Form 3800, August 2006 See Reverse for Instructions

## **LEGAL NOTICE**

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, J. Cooper Enterprises, Inc., Box 55, Monument, NM 88265, is filing a C-108, Application for Salt Water Disposal. The well being applied for is the Cooper 8 well #2, API 30-025-36529, located in Unit H, Section 8, Township 20 South, Range 37 East, Lea Co., NM. The injection formation is the Lower San Andres from 4300' to 4900' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 800 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

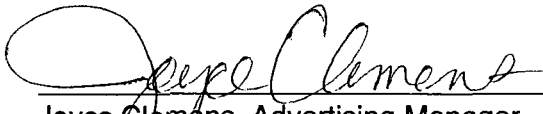
**Affidavit of Publication**

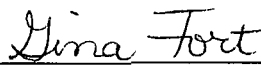
STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF LEA )

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertising Manager of THE LOVINGTON LEADER, a thrice a week newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled Legal Notice was published in a regular and entire issue of THE LOVINGTON LEADER and not in any supplement thereof, for one (1) day(s), beginning with the issue of November 4 , 2014 and ending with the issue of November 4 , 2014.

And that the cost of publishing said notice is the sum of \$ 23.57 which sum has been (Paid) as Court Costs.

  
Joyce Clemens, Advertising Manager  
Subscribed and sworn to before me this 4th day of November , 2014.

  
Gina Fort  
Notary Public, Lea County, New Mexico  
My Commission Expires June 30, 2018



**LEGAL NOTICE**  
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Published in the Lovington Leader November 4, 2014.