

Initial Application Part I

Received 4/5/21

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

SOMUL-210405-C-1080 APPLICATION FOR AUTHORIZATION TO INJECT

pBL2109542094

I. PURPOSE: _____ Secondary Recovery -- ☒ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? ☒ Yes ----- No

II. OPERATOR: **Southwest Royalties Inc.** OGRID # **21355** -----

ADDRESS: **PO Box 53570 Midland TX 79705**

CONTACT PARTY: **Billy E. Prichard**

PHONE: **432-934-7680**

WFX-1042

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

IV. Is this an expansion of an existing project? ☒ Yes ----- No
If yes, give the Division order number authorizing the project: **Case 12418 Order R-11641**

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:

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.).

*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: **Billy E. Prichard** /) TITLE: **Agent for Southwest Royalties, Inc**

SIGNATURE: **g f.** DATE: **3 / 1 / 2J**

E-MAIL ADDRESS: **billy@pwlrc.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: -----

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

Southwest Royalties, Inc
Crossroads Siluro Devonian Unit # 310
API # 30-025-24285
986 FSL X 1000 FEL
Unit letter "P", Section 27, T9S, R36E
Lea County, New Mexico
C108 Application for Authorization to Inject

I.

The purpose of this application is seeking approval for the conversion of the Crossroad Siluro Devonian # 310 to Crossroads Siluro Devonian injection well.

II.

Operator: Southwest Royalties, Inc. OGRID 21335
Address: PO Box 53570, Midland, TX 79710
Contact Party: Tanner Culp 432-207-3055

III.

Please see Exhibit "A" for proposed well data

IV.

This is an expansion of an existing project.
Case 12418 Order R-11641 approved 8/27/2001

V.

Please see Exhibit "B" for lease map

VI.

There are 16 offset wells within the 0.5 mile Area of Review
See AOR Map and Exhibit "C"

VII.

1. Anticipated injection volume 6000 BWPD with maximum of 10000 BWPD
2. System will be closed.
3. Anticipated injection pressure: Minimum 0 (zero) psig, Maximum 2426 psig
4. Disposal fluid will be Devonian produced water from CSDU wells.



www.pwllc.net

Page 1 of 2

Southwest Royalties, Inc
Crossroads Siluro Devonian Unit# 310
API # 30-025-24285
986 FSL X 992 FEL
Unit Letter "P", Section 27, T9S, R36E
Lea County, New Mexico
C108 Application for Authorization to Inject

VIII.

Formation	Anticipated Depth (ft)
T. Yates	2830
T. San Andres	4094
T.Abo	7692
T. Mississipian	11658
T. Woodford	12060
T. Devonian	12136
Proposed disposal zone	12130-12350

The proposed well is not located within the Capitan Reef Area.

IX.

The plugged and abandoned UD Sawyer# 10 will be reentered as the Crossroads Siluro Devona in Unit# 310. Plugs will be drilled out to TD 12130 with 8 ¾"bit then cased with 7" casing to surface and cemented with sufficient cement volume to circulate to surface. 5 7/8" open hole will be drilled 12130'-12350'

Open hole will be acidized 10000 gallons of 20% HCL

X.

Any additional logs performed will be submitted after completion.

XI.

NM OSE records indicate there are no fresh water wells in the 1 mile Area of Review
See Exhibit "E" for copies of OSE data base queries and map of the area.

XII.

Available geological and engineering data have been examined and evidence of open faults or hydrological connection between the Devonian disposal zone and underground sources of drinking water has been found.

XIII.

Please see Exhibit "F" for Proof of Notice and
Affidavit of publication.

Southwest Royalties, Inc
Crossroads Siluro Devonian Unit# 310
PA as U.D. Sawyer# 10
API # 30-025-24285
986 FSL X 1000 FEL
Unit Letter "P", Section 27, T9S, R36E
Lea County, New Mexico
Current Well Data

Spud 11/8/1972 as exploration well in the Devonian formation

13 3/8" 48# casing set at 260' in 17 1/2" hole, cemented 275 sacks of cement.
Circulated 90 sacks of cement to the surface.

9 5/8" 36# casing set at 4250' in 12 1/4" hole, cemented with 1440 sacks of cement.
Circulated 100 sacks of cement to the surface.

Drilled 8 3/4" hole to TD of 12190'
Plugged as dry and abandoned 2/14/1973
Plug 1 - 65 sks cmt 11600'-11700'
Plug 2 - 75 sks cmt 9570'-9670'
Plug 3 - 65 sks cmt 8850'-8950'
Plug 4 - 75 sks cmt 7600'-7700'
Plug 5 - 65 sks cmt 5400'-5500'
Plug 6 - 70 sks cmt 4200'-4300'
Plug 7 - 50 sks cmt 2300'-2400'
Plug 8 - 10 sks Surface - 30'

Exhibit "A"

CSDU #310 Re-Entry (Previously Sawyer #10 P&A) - CURRENT WBD

1000' FEL & 986' FSL, Sec 27, T9S, R36E Lea County, NM

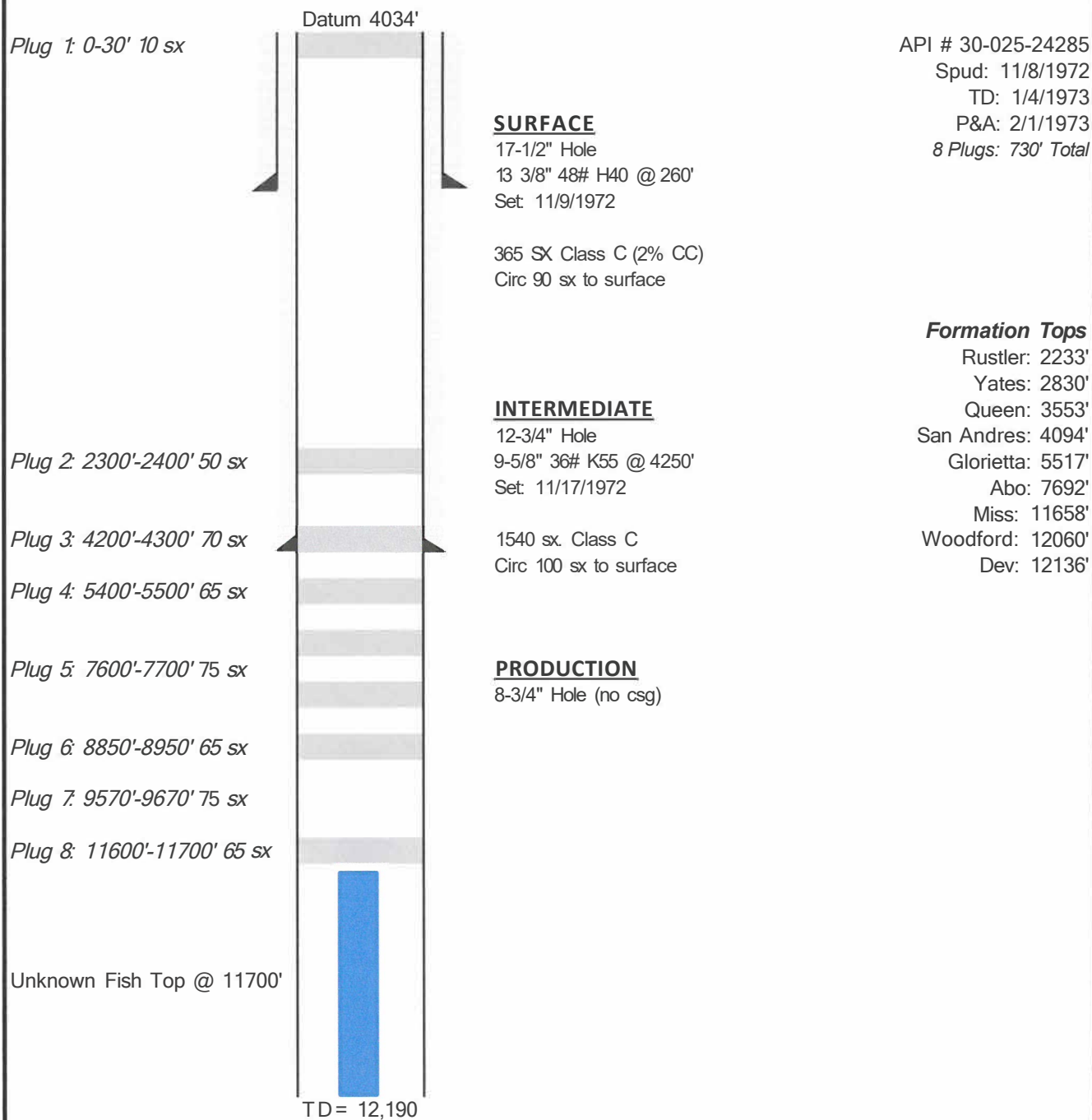
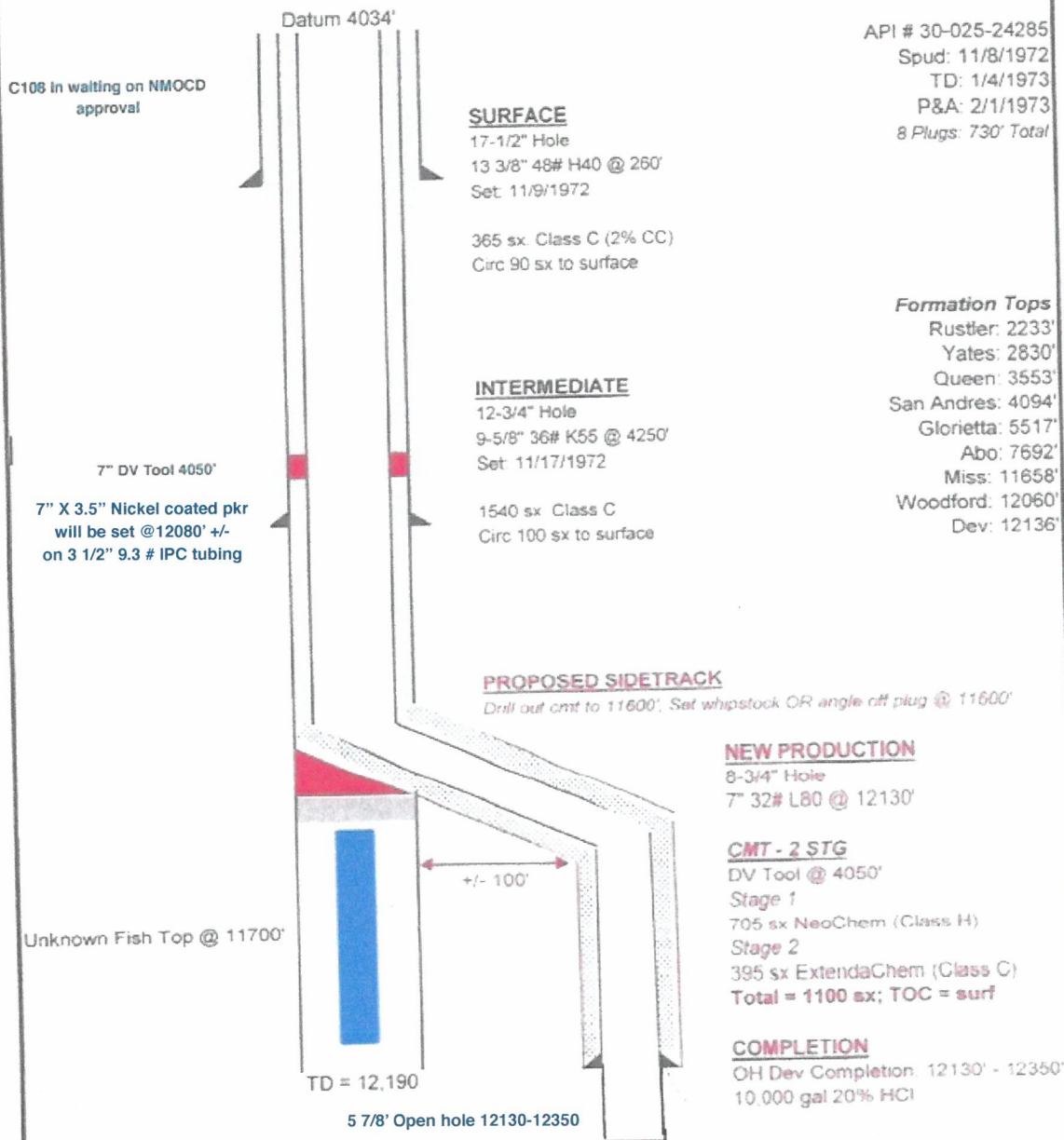


Exhibit ¹¹A¹¹

Drawn	BY	SOUTHWEST ROYALTIES, INC P.O. BOX 53570 Midland, TX 79710	CSDU #310 1000' FEL, 986' FSL SEC 27 T9S R36E Lea County, NM
1/20/2021	TBC		

CSDU #310 Re-Entry (Previously Sawyer #10 P&A) - PROPOSED WBD

1000' FEL & 986' FSL, Sec 27, T9S, R36E Lea County, NM

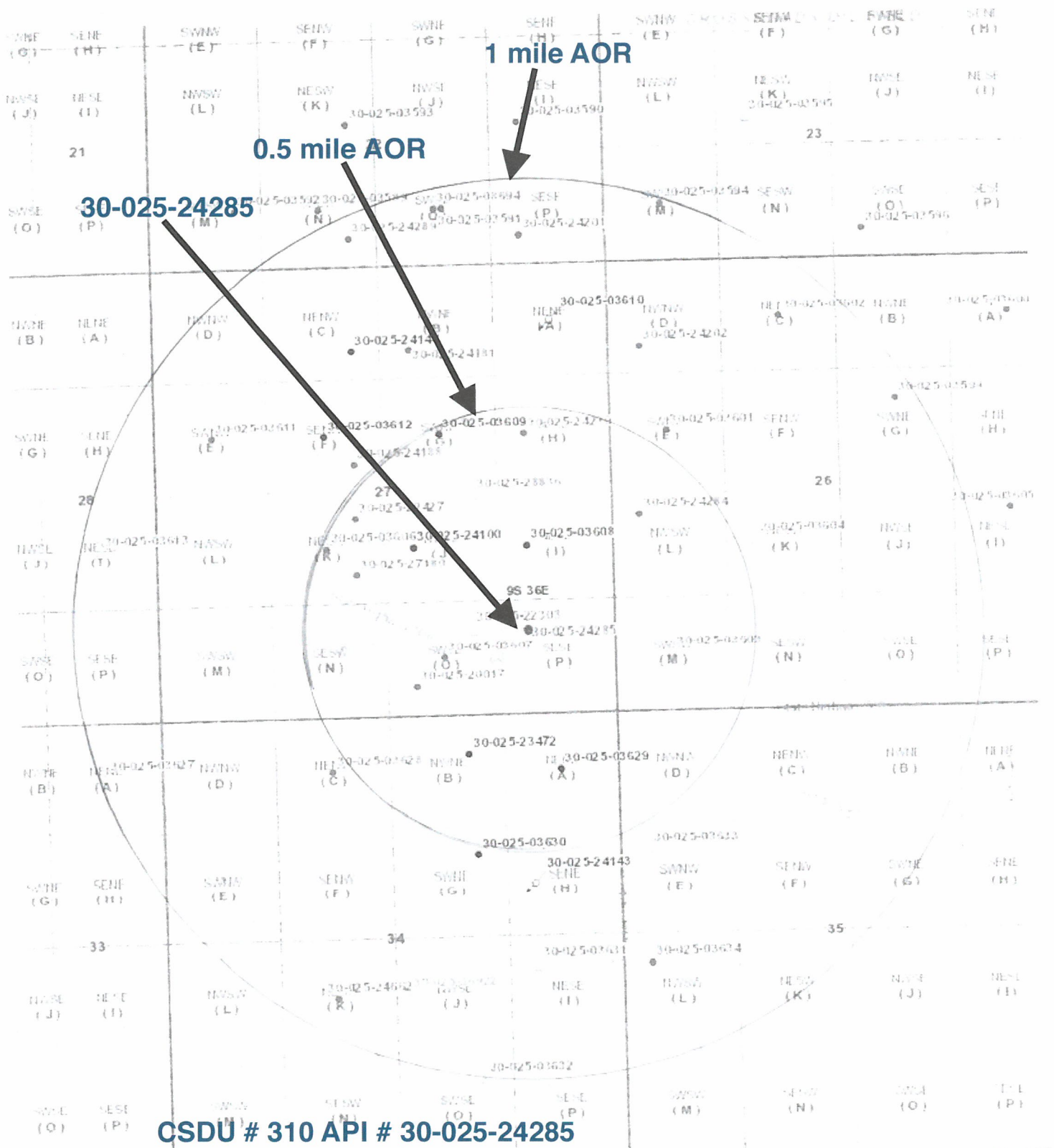


Drawn	BY
1/20/2021	TPC

SOUTHWEST ROYALTIES, INC
P.O. BOX 53570
Midland, TX 79710

CSDU #310
1000' FEL, 986' FSL
SEC 27 T9S R36E
Lea County, NM

Exhibit "A"



L2 L1 04
10S 36E

Exhibit "B"

U.S. Department of Energy, Minerals and Natural Resources, Bureau of
 Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA,
 OGD, BLM

CSDU # 310 offset wells

API # 30-025-24285

986 FSL X 1000 FEL

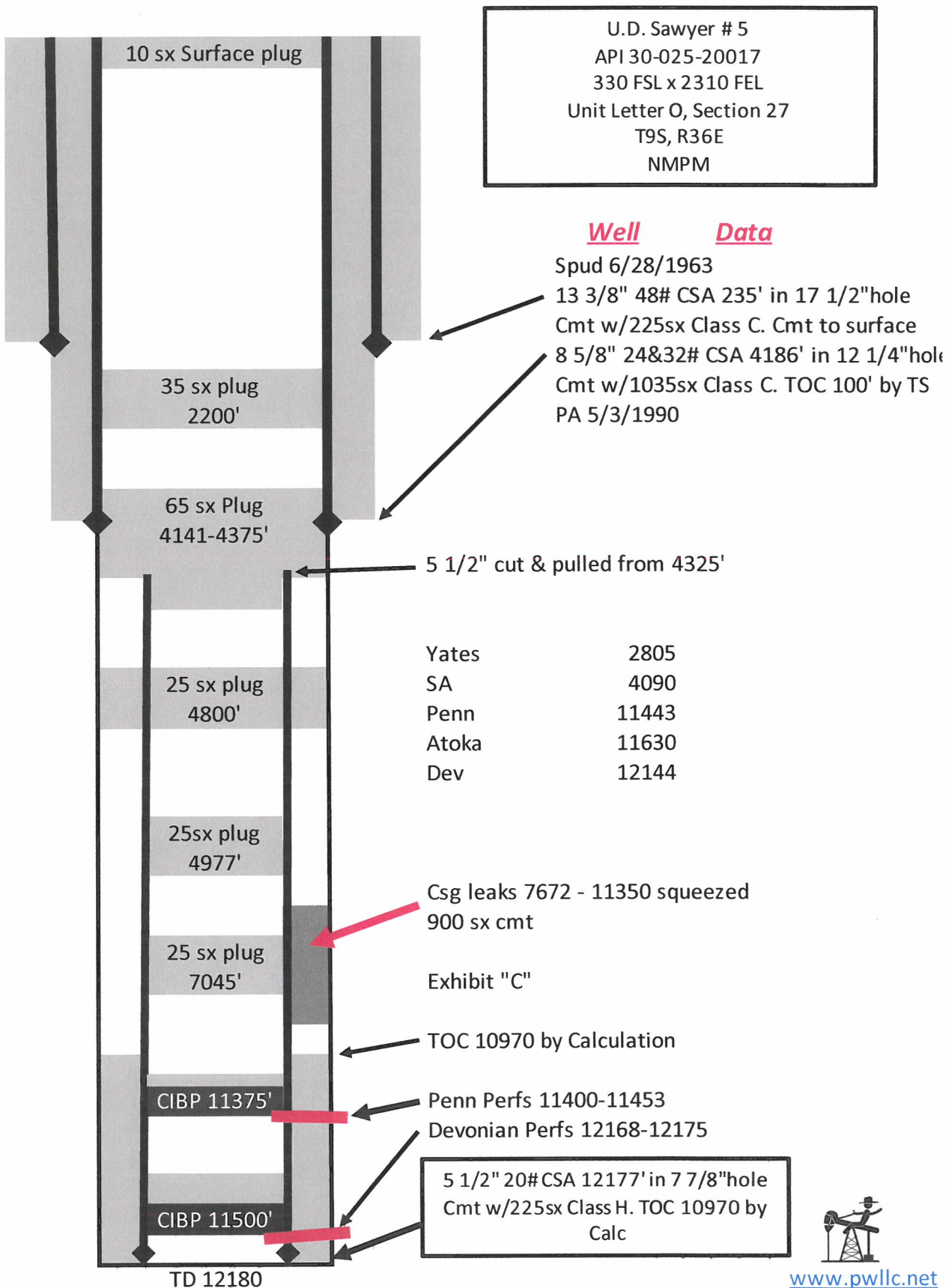
UL P, Section 27, T9S, R36E NMPPM

	UL O Section 27, 9S, R36E	Status	TD
1	30-025-03607	PA	12258
2	30-025-20017	PA	12180
3	30-025-22303	PA	12166
	UL K Section 27, 9S, R36E		
4	30-025-03606	PA	12231
5	30-025-22427	PA	11870
6	30-025-27180	PA	11949
	UL G Section 27, 9S, R36E		
7	30-025-03609	A	12150
	UL H Section 27, 9S, R36E		
8	30-025-24239	P	12068
	UL I Section 27, 9S, R36E		
9	30-025-03608	A	12102
	UL J Section 27, 9S, R36E		
10	30-025-24100	A	12150
11	30-025-28836	P	12890
	UL E Section 26, 9S, R36E		
12	30-025-03601	P	12137
	UL L, Section 26 9S, R36E		
13	30-025-24284	P	12120
	UL M, Section 26 9S, R36E		
14	30-025-03603	P	12263
	UL A Section 34 9S, R36E		
15	30-025-03629	A	12187
	UL B Section 34 9SR36E		
16	30-025-23472	A	12177



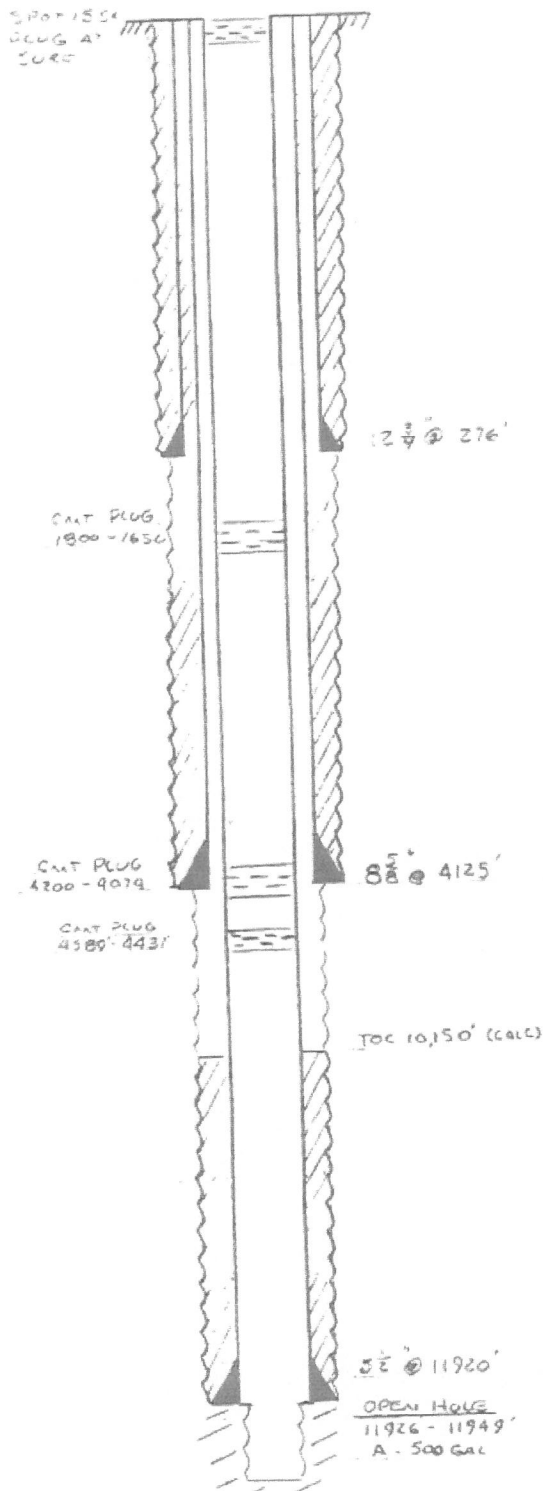
www.pwllc.net

Exhibit "C"



OPERATOR: <u>BARTER H. KELLEY</u>	<u>CROSSROADS SUCRO. DEVONIAN</u>
LEASE: <u>SAWYER WELL NO. 1</u>	LOCATION: <u>K 1650' E 32' N 270' FWL</u>
<u>SEC 27, T9S, R36E, L4A COUNTY, NEW MEXICO</u>	

Dessie Sawyer # 1
 API 30-025-27180
 1650 FSL X 1980 FWL
 UL "K", Sec 27, T9S, R36E
 NMPM
 Spud 6/22/1948
 PA 12/4/1992



12 ³/₄ " casing set at 276' with 350 sx of cement.
 Hole Size: 17 ¹/₂ ". CMT CIRC TO SURF

Exhibit "C"

8 ⁵/₈ " casing set at 4125' with 1650 sx of cement.
 Hole Size: 11 ". CMT CIRC TO SURF

5 ¹/₂ " casing set at 11,920' with 250 sx of cement.
 Total depth 11,949' Hole Size: 7 ³/₈ ". TOC 10,150'
POTENTIAL TEST: P. 128 BOE 245 BW, GOR 161, 44° API

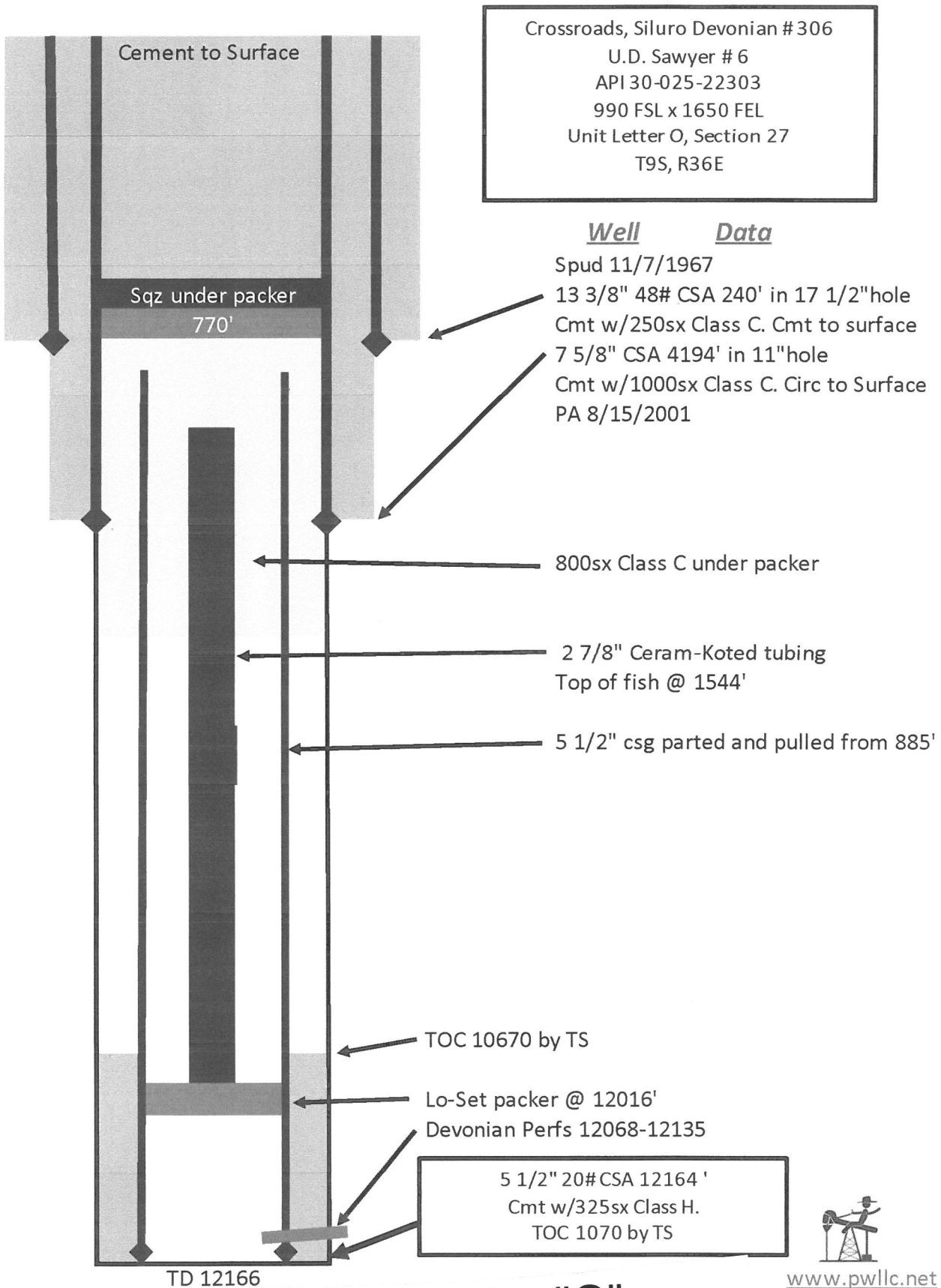


Exhibit "C"

Crossroads Siluro Devonian # 303
API 30-025-03609
1980 FNL x 1980 FEL
Unit Letter G, Section 27
T9S, R36E

Well Data

Spud 2//1948
13 3/8" 36# CSA 258' in 17 "hole
Cmt w/300sx Class C. Cmt to surface

9 5/8" CSA 4651'
Cmt w/2125sx Cmt to surface

Drawing not to scale

5 1/2" CSA 12147' in 7 7/8" hole
Cmt w/1090sx Cmt
TOC 6500' by TS

5 1/2" cemented in 2 Stages
No record of DV Tool depth

11660'

5 1/2"x 3 1/2" cased hole packer

Window cut in 5 1/2" csg at 11727

3 1/2" 9.3# tubing

Whipstock
CIBP 11737'

Sub Pump
Left in well

Perfs
12000-12050

TD 12147'

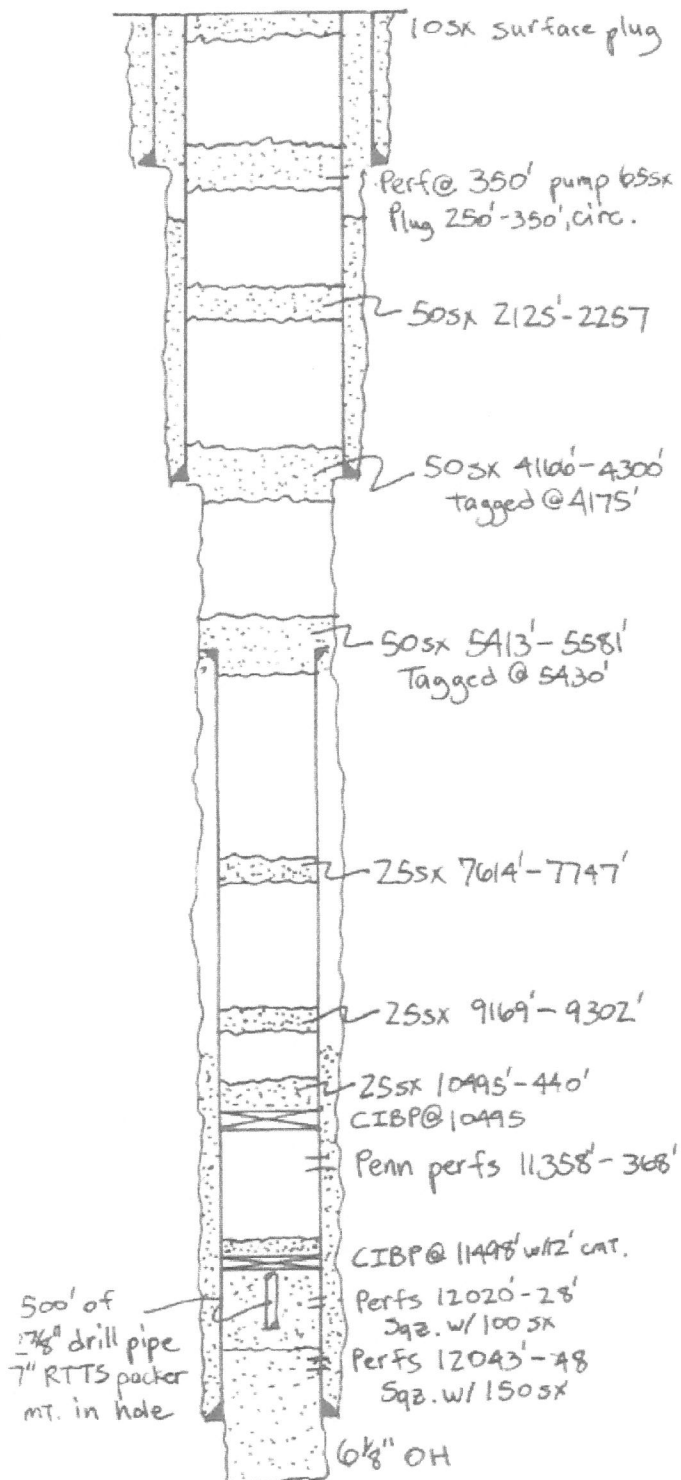
11952

4 3/4" x 3 1/2" Open hole packer

TD 12035'

Exhibit "C"

OPERATOR: Saga Petroleum LLC of CO	LOCATION: Sec. 27, T9S, R36E, Lea County, NM
Lease: U. D. Sawyer #9	Unit H, 1980' FNL + 990' FEL



13 3/8" casing set at 273' with 275' sx of cement.

Hole Size: 17 1/2". TOC @ surf by circ.

9 5/8" casing set at 4240' with 1440' sx of cement.

Hole Size: 12 1/4". TOC @ 1520' by TS.

7" casing cut and pulled at 5540'

U.D Sawyer 9
API 30-025-24239
1980 FNL x 990 FEL
UL H, Sec 27, T9S, R36E
Lea County
NMPM
Spud 9/10/1972
PA 1/21/2020

Exhibit "C"

7" casing set at 12049' with 250' sx of cement.

Hole Size: 8 3/4". 1st Stage: TOC @ 9400' by TS.
2nd Stage: TOC @ _____' by _____.

Total depth 12068'. DV Tool @ N/A.

Southwest Royalties
Crossroads Siluro Devonian # 302
API 30-025-03608
1980 FSL x 990 FEL
Unit Letter I, Section 27
T9S, R36E
Lea County

Well Data

Spud 6/25/1950

13 3/8" 36# CSA 258' in 17 "hole
Cmt w/300sx Class C. Cmt to surface

9 5/8" CSA 4625' in 12 1/4" Hole'
Cmt w/3500sx in 2 stages Cmt to surface
DV Tool depth not reported

Drawing not to scale



www.pwllc.net

San Andres	4140
Abo	7730
Wolfcamp	8970
Miss	11520
Devonian	12000

DV Tool 11165'

Stage 1 - 278 sx cmt
Stage 2 - 900 sx cmt

5 1/2" CSA 1297 'in 7 7/8" hole
Cmt w/1090sx Cmt in 2 stages
TOC 6500' by TS
DV Tool 11165'

Perfs
12010-12092

TD 12104

Exhibit "C"

Southwest Royalties
Crossroads Siluro Devonian #307
API 30-025-24100
1980 FSL x 2310 FEL
Unit Letter J, Section 27
T9S, R36E
Lea County

Well Data

Spud 5/5/1972
13 3/8" 48# CSA 260' in 17 "hole
Cmt w/275sx Class C. Cmt to surface

9 5/8" CSA 4250' in 12 1/4" Hole'
Cmt w/1440sx TOC 925'

Drawing not to scale



www.pwllc.net

Sub pump stuck 6427'
Yates 2830
San Andres 4080
Abo 7678
Miss 11378
Devonian 11898

TOC 10310 by TS

7" CSA 11976'in 8 3/4" hole
Cmt w/250 sx Cmt
TOC 10310' by TS

Perfs
11958-11971

TD 11976

Exhibit "C"

Crossroads Siluro Devonian #311
 API 30-025-28836
 2561 FSL x 1610 FEL
 Unit Letter J, Section 27
 T9S, R36E
 Lea County

Well Data

Spud 12/4/1984
 13 3/8" CSA 300' in 17" hole
 Cmt w/300sx Class C. Cmt to surface

9 5/8" CSA 4500' in 12 1/4" Hole'
 Cmt w/2000sx Cmt circ to surface

Drawing not to scale

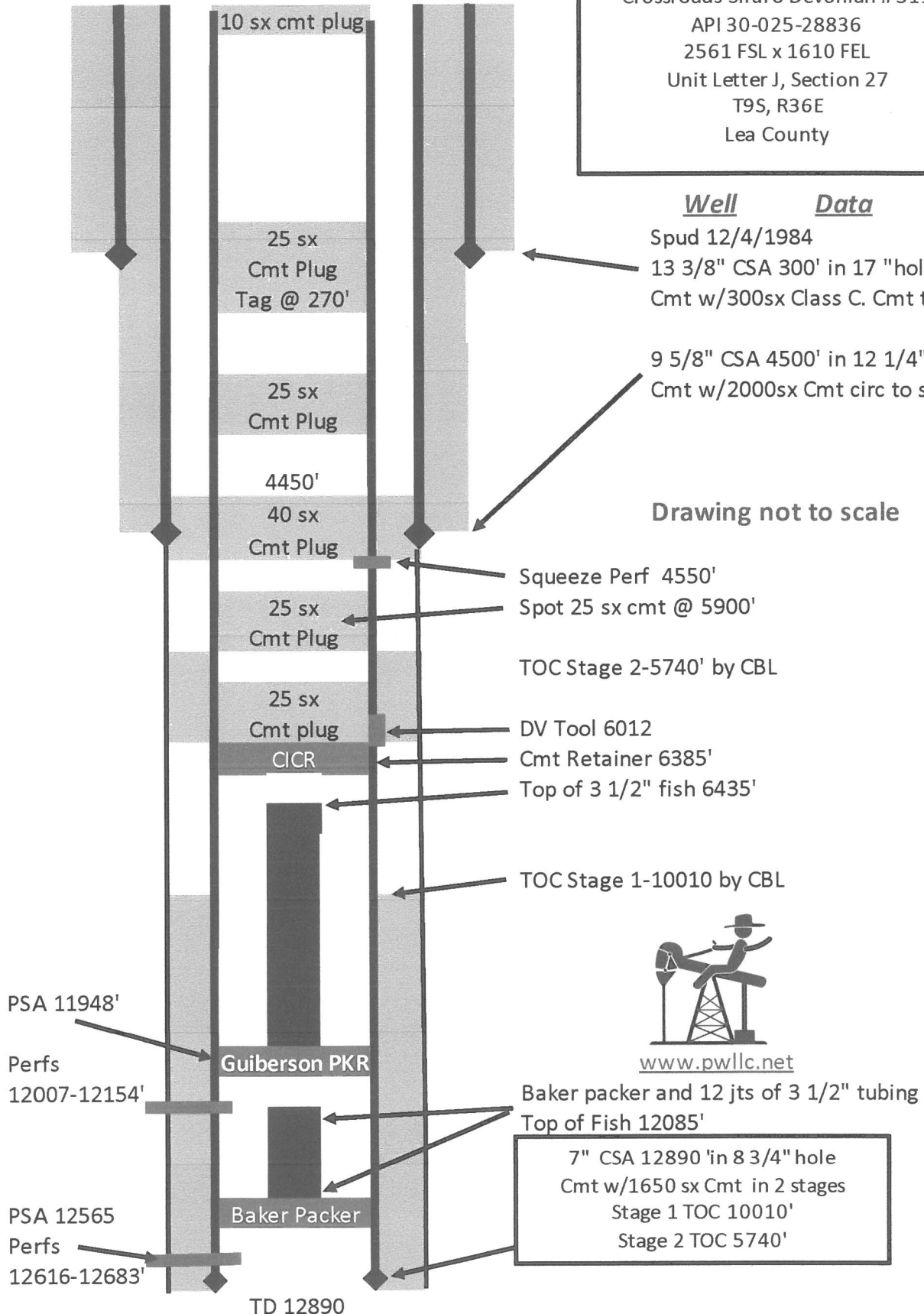


Exhibit "C"

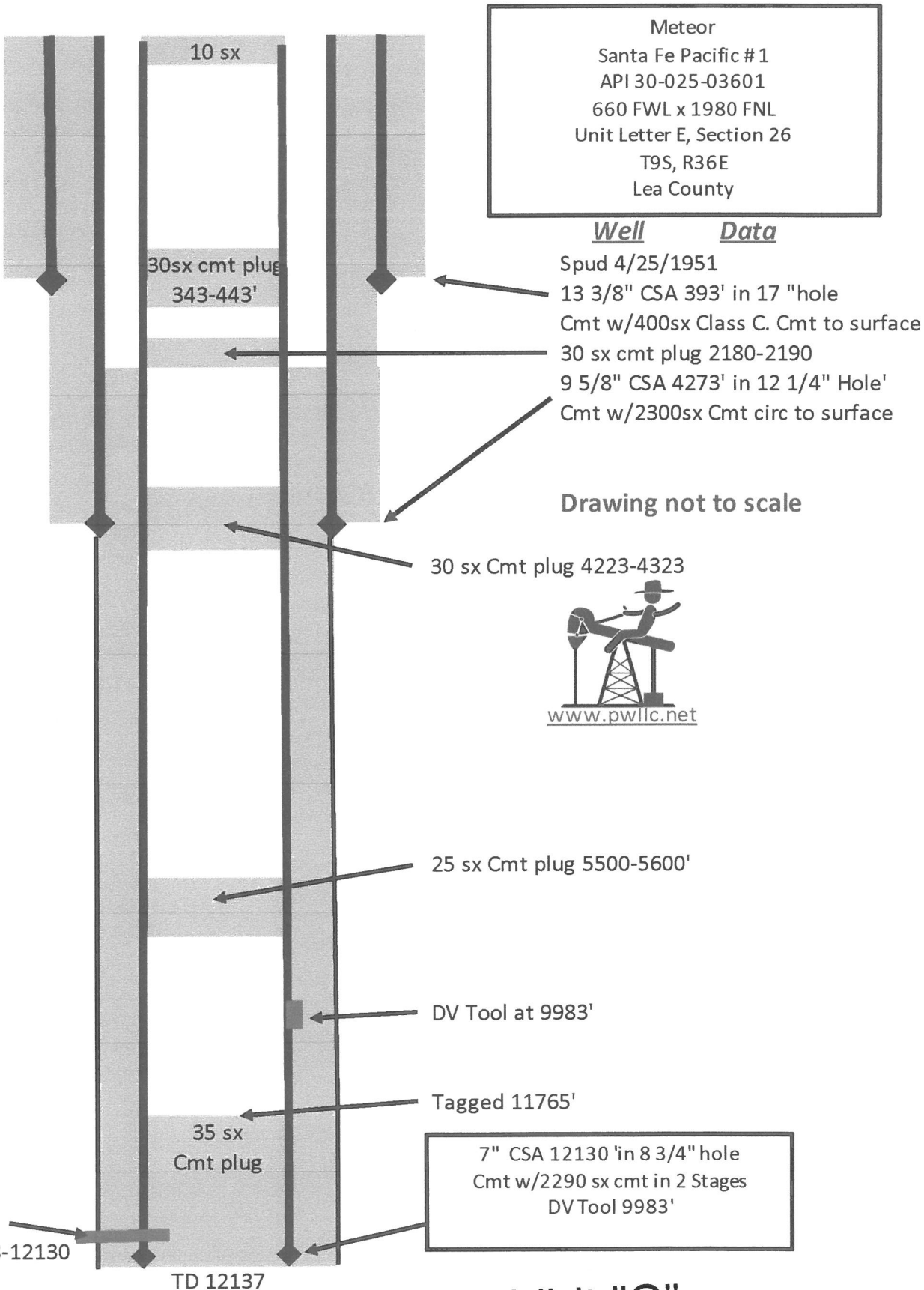
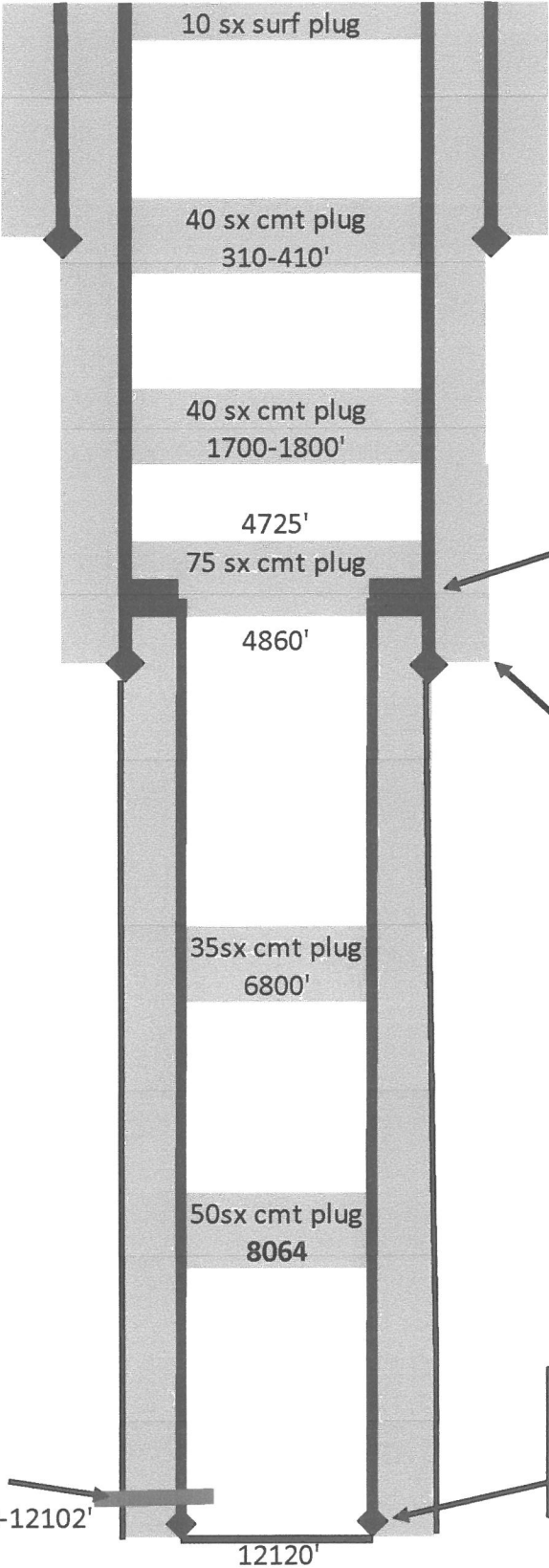


Exhibit "C"

Meteor
Santa Fe Pacific # 12
API 30-025-24284
330 FWL x 2310 FSL
Unit Letter L, Section 26
T9S, R36E
Lea County



Well Data

Spud 11/27/1972
13 3/8" CSA 360' in 17 1/2" hole
Cmt w/400sx Class C Cmt to surface

Top of 7" Liner 4810'
Squeezed with 250 sx in 1972

9 5/8" CSA 5000' in 12 1/4" Hole'
Cmt w/ 2660sx, Cmt circ to surface

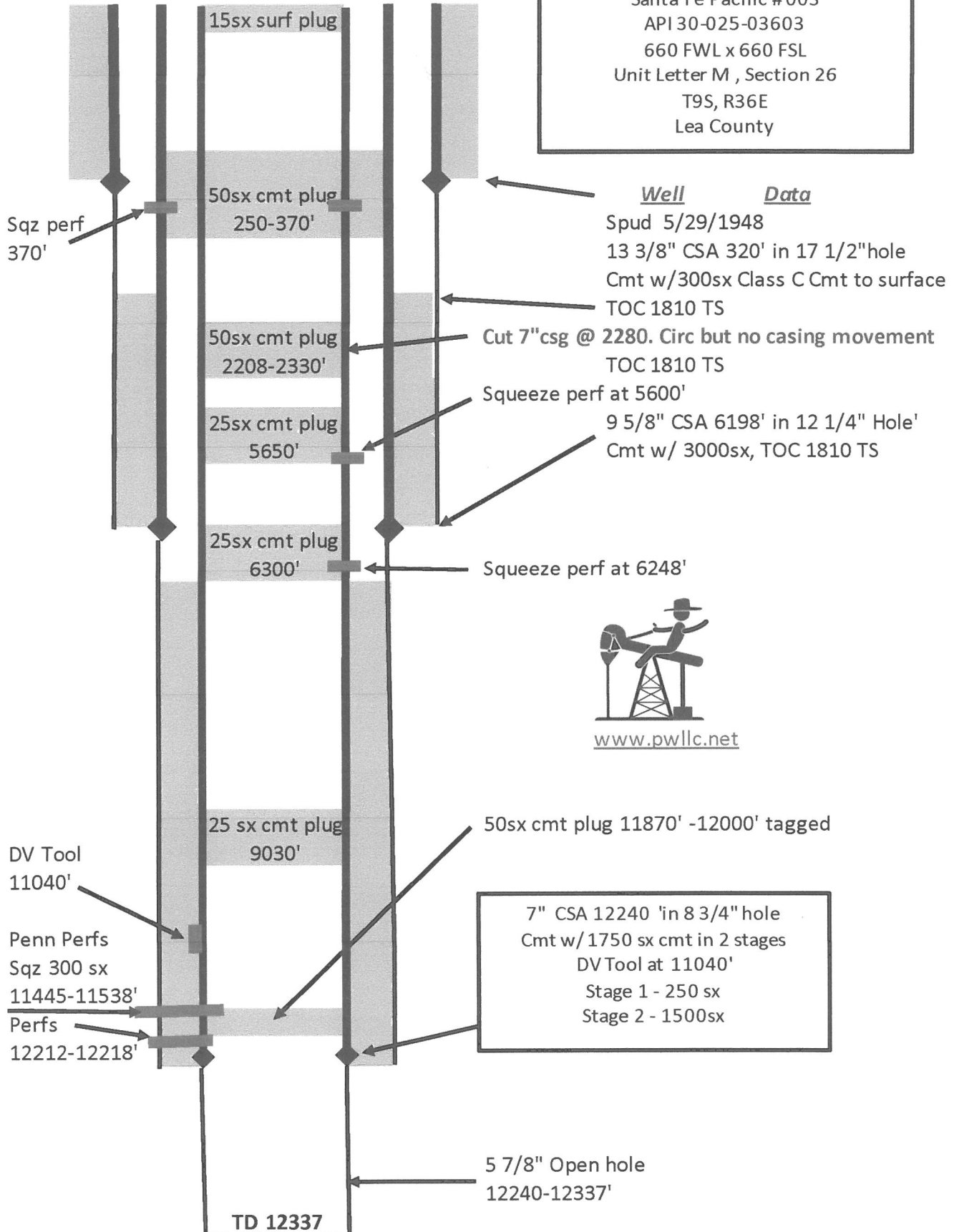


www.pwllc.net

7" Liner set 12119 'in 8 3/4" hole
TOL 4810' Btm of Liner 12119'
Cmt w/ 2050 sx cmt

Exhibit "C"

Meteor
 Santa Fe Pacific #003
 API 30-025-03603
 660 FWL x 660 FSL
 Unit Letter M , Section 26
 T9S, R36E
 Lea County



www.pwllc.net

Exhibit "C"

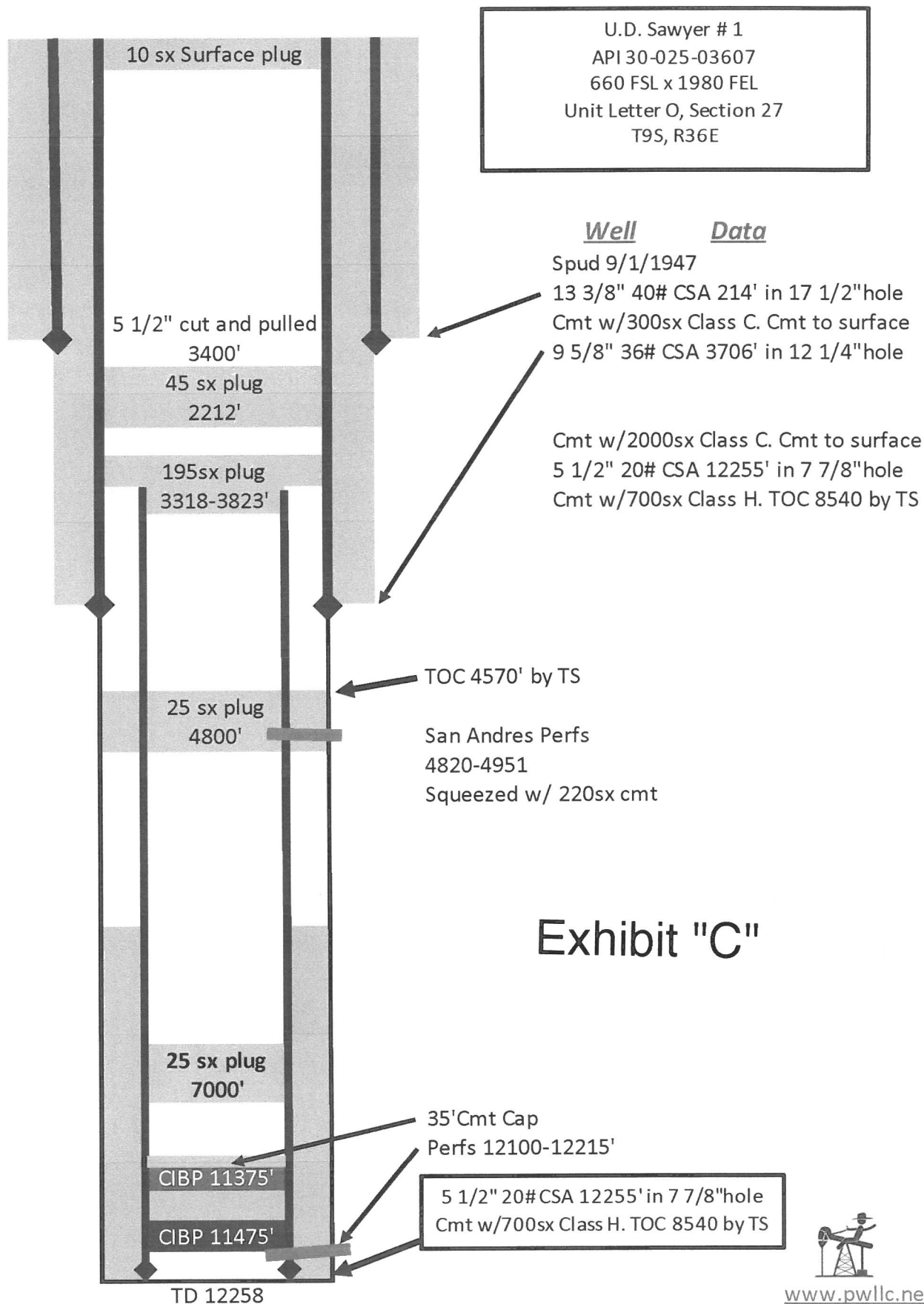


Exhibit "C"



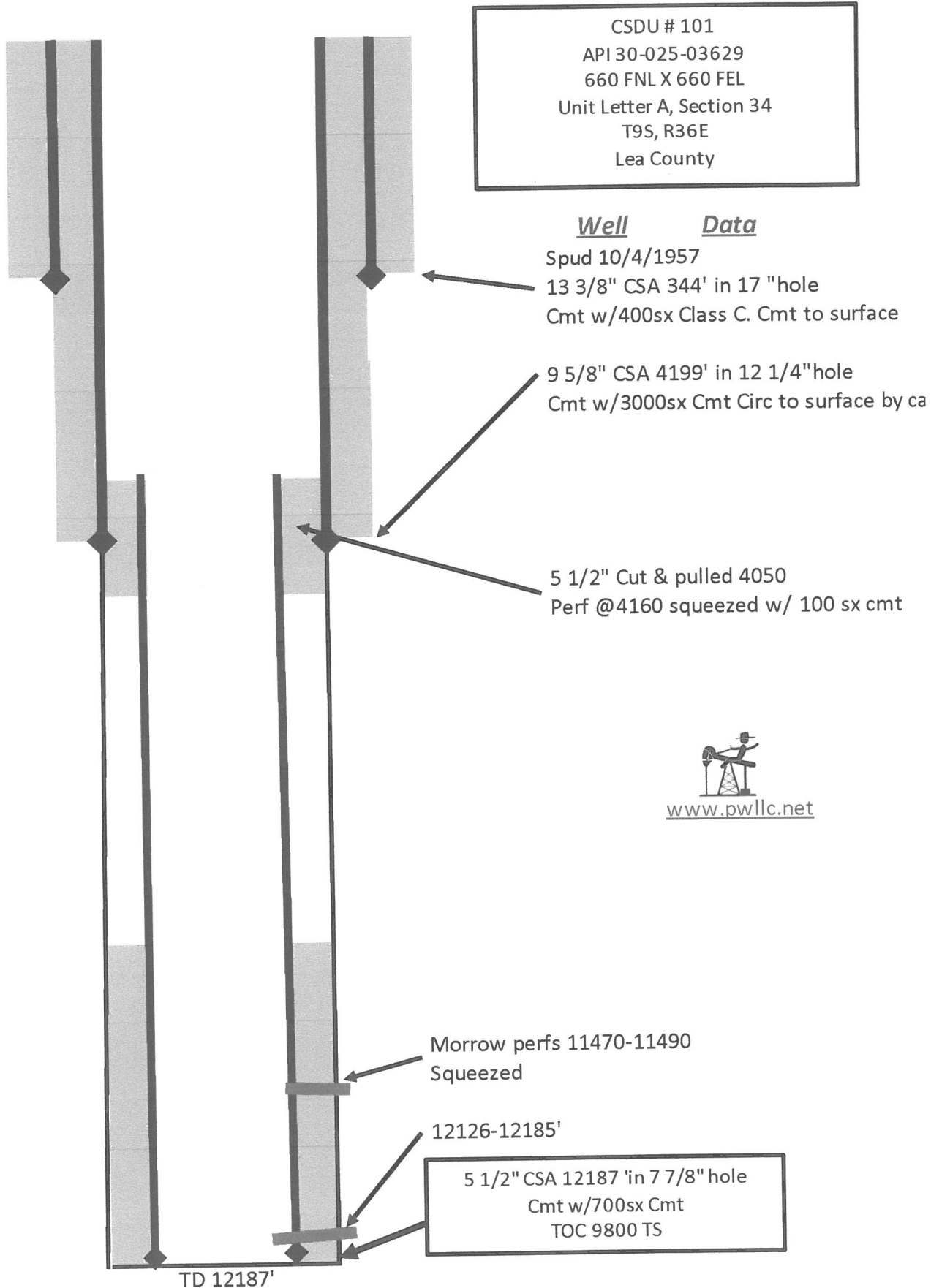


Exhibit "C"

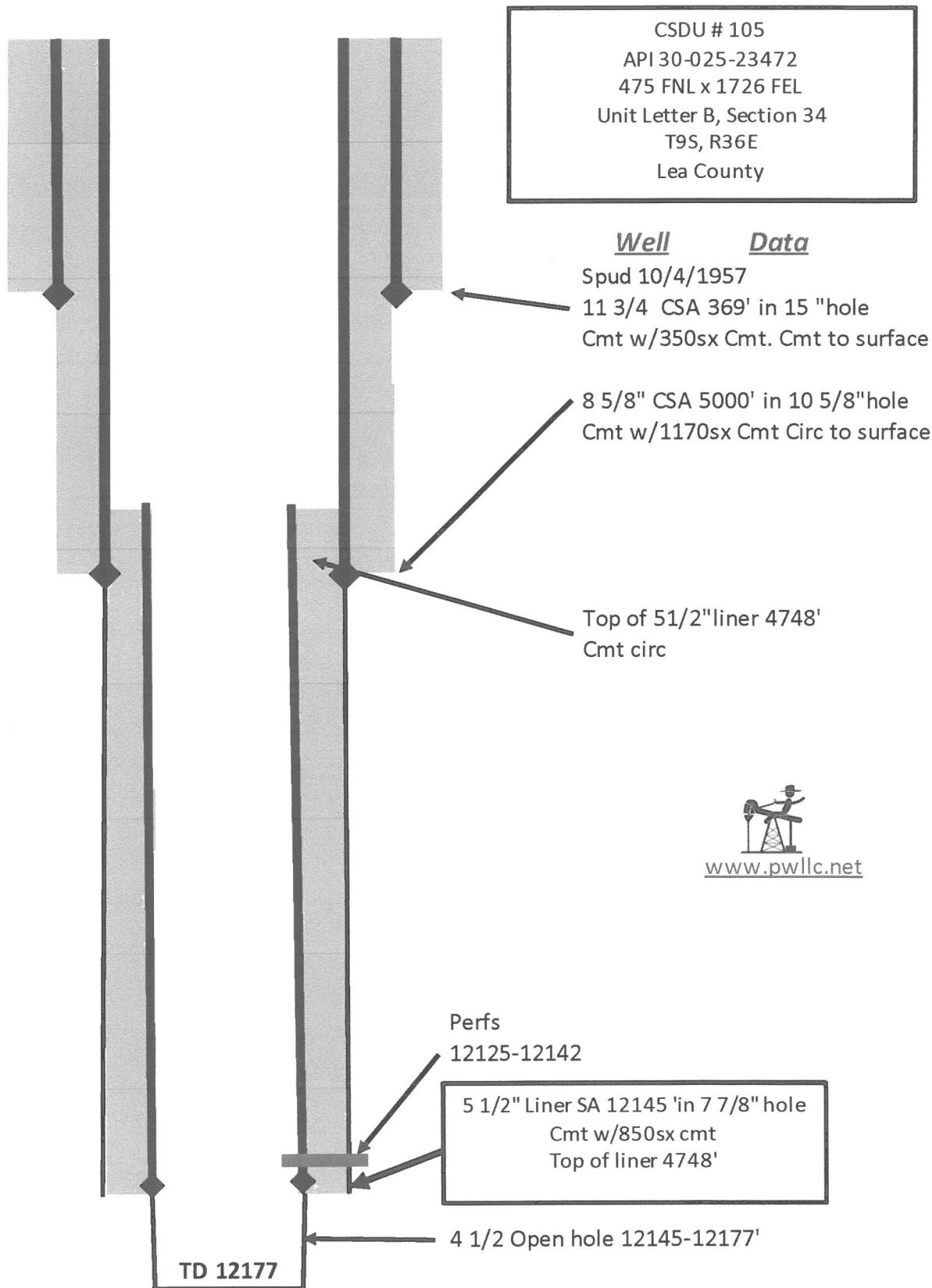


Exhibit "C"

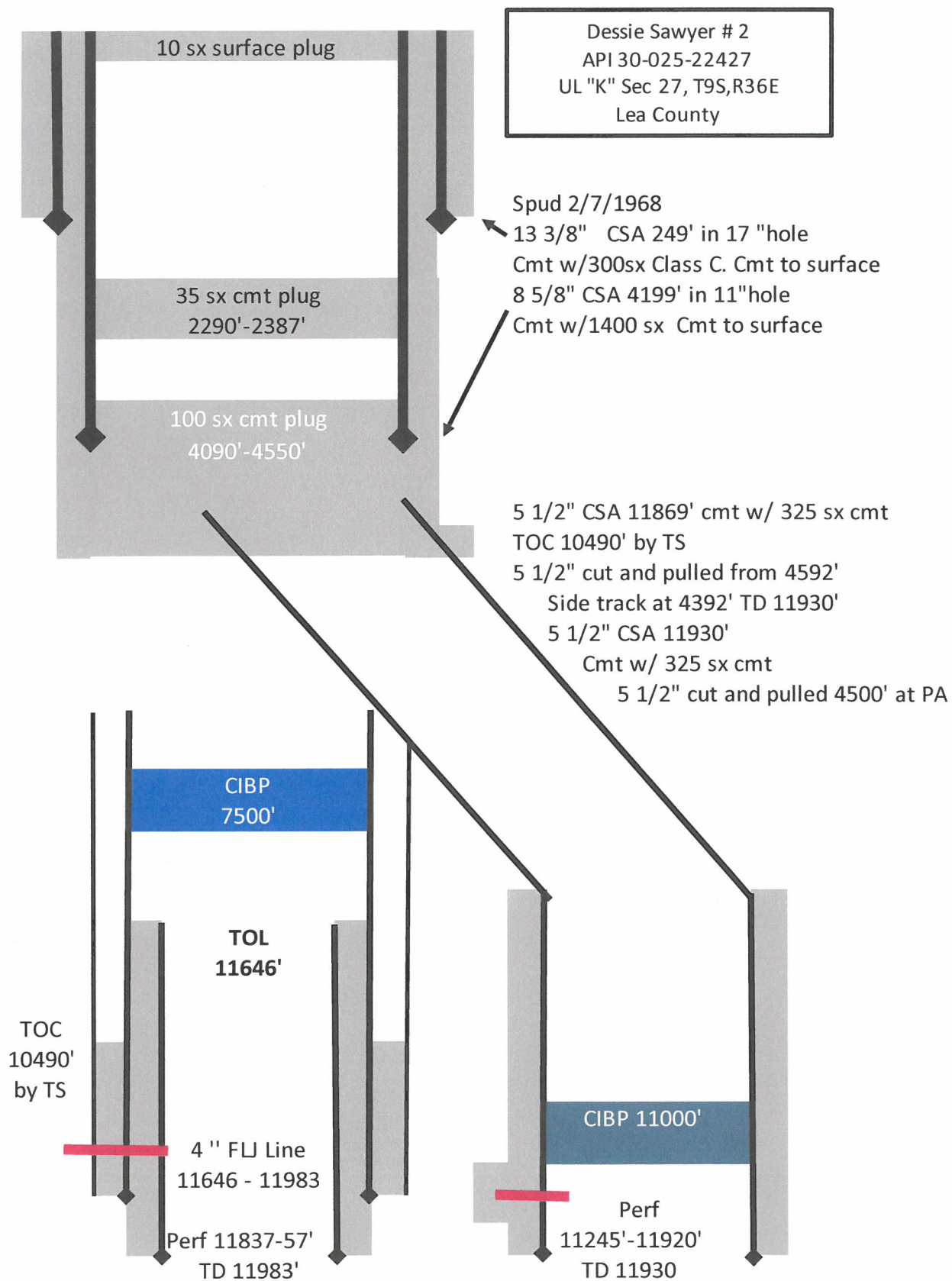
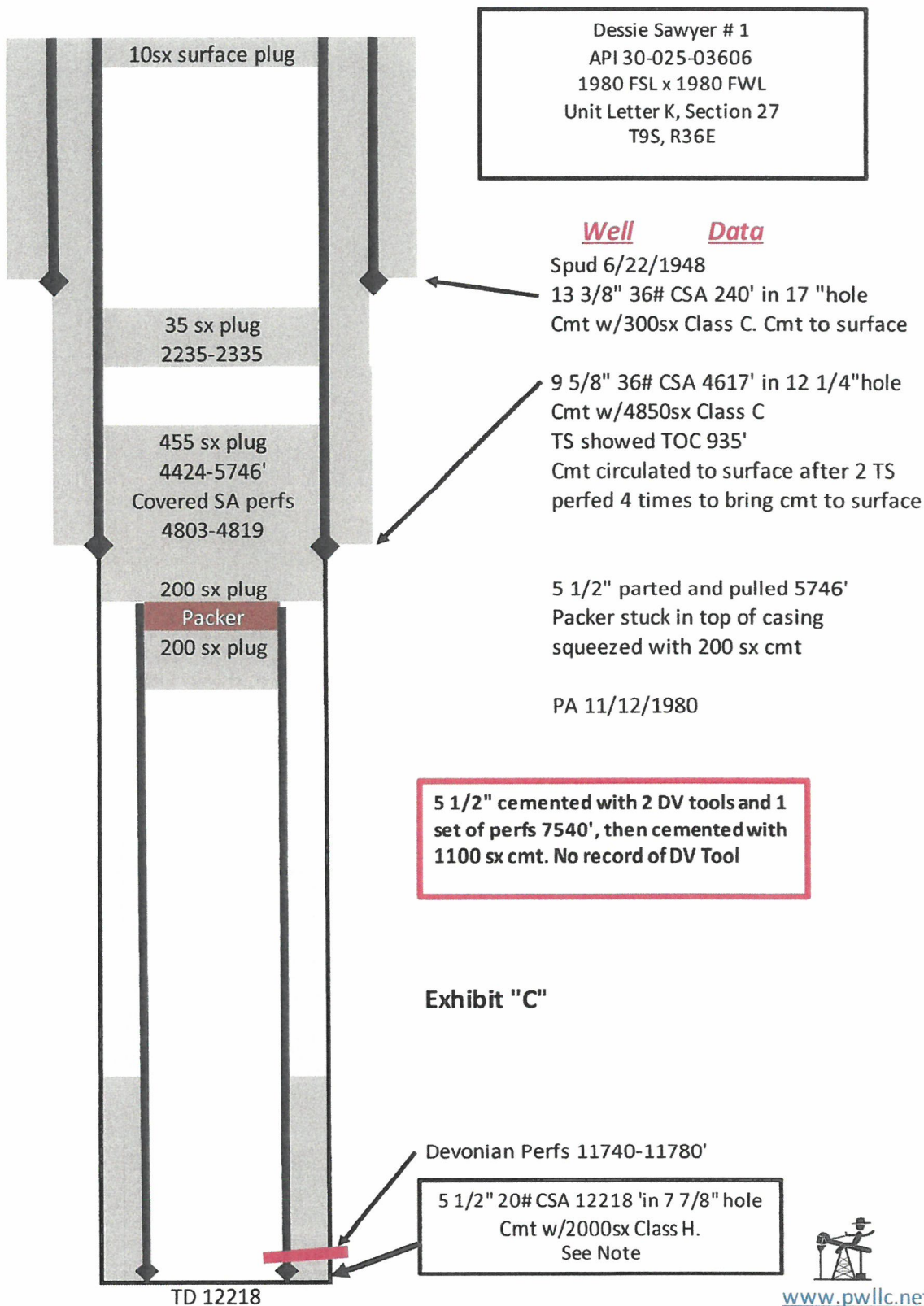


Exhibit "C"





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced.

O=orphaned,

C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q Q Q	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
L 01140 POD1		L	LE	64 16 4	1	23	09S 36E	664240	3710696*			70

Average Depth to Water: 70 feet

Minimum Depth: 70 feet

Maximum Depth: 70 feet

Record Count: 1

PLSS Search:

Section(s): 22, 23, 26, 27, Township: 09S Range: 36E
28, 33, 34, 35

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/22/20 7:56 AM

**No fresh water wells with in the 1
mile are of review. Numerous
wells in the area.**

**4 fresh water wells in the area
outside of 1 mile area of review.
water analysis included**

Exhibit E

WATER COLUMN/ AVERAGE DEPTH
TO WATER



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	Southwest Royalty	Sample #:	147486
Area:	Permian Basin	Analysis ID #:	127112
Lease:	Fresh Water Well		
Location:	4		0
Sample Point:	Wellhead		

Sampling Date:	12/23/2020	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/30/2020	Chloride:	120.9	3.41	Sodium:	37.4	1.62
Analyst:	Catalyst	Bicarbonate:	183.0	3.	Magnesium:	22.1	1.82
		Carbonate:			Calcium:	53.2	2.66
TDS (mg/l or g/m3):	430.8	Sulfate:	0.0	0.	Potassium:	11.1	0.28
Density (g/cm3):	1.003	Borate*:	2.0	0.01	Strontium:	1.0	0.02
		Phosphate*			Barium:	0.1	0.
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.			Iron:	0.0	0.
Carbon Dioxide:	13				Manganese:	0.005	0.
Comments:							
		pH at time of sampling:		6.8			
		pH at time of analysis:					
		pH used in Calculation:		6.8			
		Temperature @ lab conditions (F):		75	Conductivity (micro-mhos/cm):		602
					Resistivity (ohm meter):		16.6113

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	-0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	-0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	-0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.15	4.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	0.34	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220	0.53	14.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exhibit "E"



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038

Water Analysis Report

Customer:	Southwest Royalty	Sample #:	147483
Area:	Permian Basin	Analysis ID #:	127109
Lease:	Fresh Water Well		
Location:	1		0
Sample Point:	Wellhead		

Sampling Date:	12/23/2020	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/30/2020	Chloride:	125.6	3.54	Sodium:	42.3	1.84
Analyst:	Catalyst	Bicarbonate:	192.8	3.16	Magnesium:	22.3	1.83
TDS (mg/l or g/m3):	452.4	Carbonate:			Calcium:	54.8	2.73
Density (g/cm3):	1.003	Sulfate:	0.0	0.	Potassium:	11.6	0.3
		Borate*:	2.0	0.01	Strontium:	0.9	0.02
		Phosphate*			Barium:	0.1	0.
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.			Iron:	0.0	0.
Carbon Dioxide:	13				Manganese:	0.005	0.
Comments:					pH at time of sampling:	6.96	
					pH at time of analysis:		
					pH used in Calculation:	6.96	
		Temperature @ lab conditions (F):	75	Conductivity (micro-mhos/cm):	554		
				Resistivity (ohm meter):	18.0505		

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	-0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120	-0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	0.15	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	0.33	8.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200	0.52	13.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
220	0.71	17.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Exhibit "E"



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer:	Southwest Royalty	Sample #:	147484
Area:	Permian Basin	Analysis ID #:	127110
Lease:	Fresh Water Well		
Location:	2		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	12/23/2020	Anions			Cations		
Analysis Date:	12/30/2020	Chloride:		103.0	Sodium:		36.9
Analyst:	Catalyst	Bicarbonate:		180.6	Magnesium:		21.7
TDS (mg/l or g/m3):	428.7	Carbonate:			Calcium:		52.1
Density (g/cm3):	1.003	Sulfate:		20.0	Potassium:		11.4
		Borate*:		1.9	Strontium:		1.0
		Phosphate*			Barium:		0.1
					Iron:		0.0
Hydrogen Sulfide:	0				Manganese:		0.004
Carbon Dioxide:	17						
Comments:							

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.30	0.00	-2.39	0.00	-2.46	0.00	-2.39	0.00	-0.30	0.00
100	-0.16	0.00	-2.38	0.00	-2.39	0.00	-2.36	0.00	-0.44	0.00
120	-0.01	0.00	-2.37	0.00	-2.29	0.00	-2.32	0.00	-0.55	0.00
140	0.15	2.80	-2.34	0.00	-2.17	0.00	-2.27	0.00	-0.63	0.00
160	0.32	6.31	-2.31	0.00	-2.04	0.00	-2.22	0.00	-0.69	0.00
180	0.50	10.16	-2.27	0.00	-1.89	0.00	-2.15	0.00	-0.73	0.00
200	0.68	14.01	-2.23	0.00	-1.73	0.00	-2.09	0.00	-0.75	0.00
220	0.86	17.87	-2.19	0.00	-1.55	0.00	-2.02	0.00	-0.75	0.00

Exhibit "E"



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

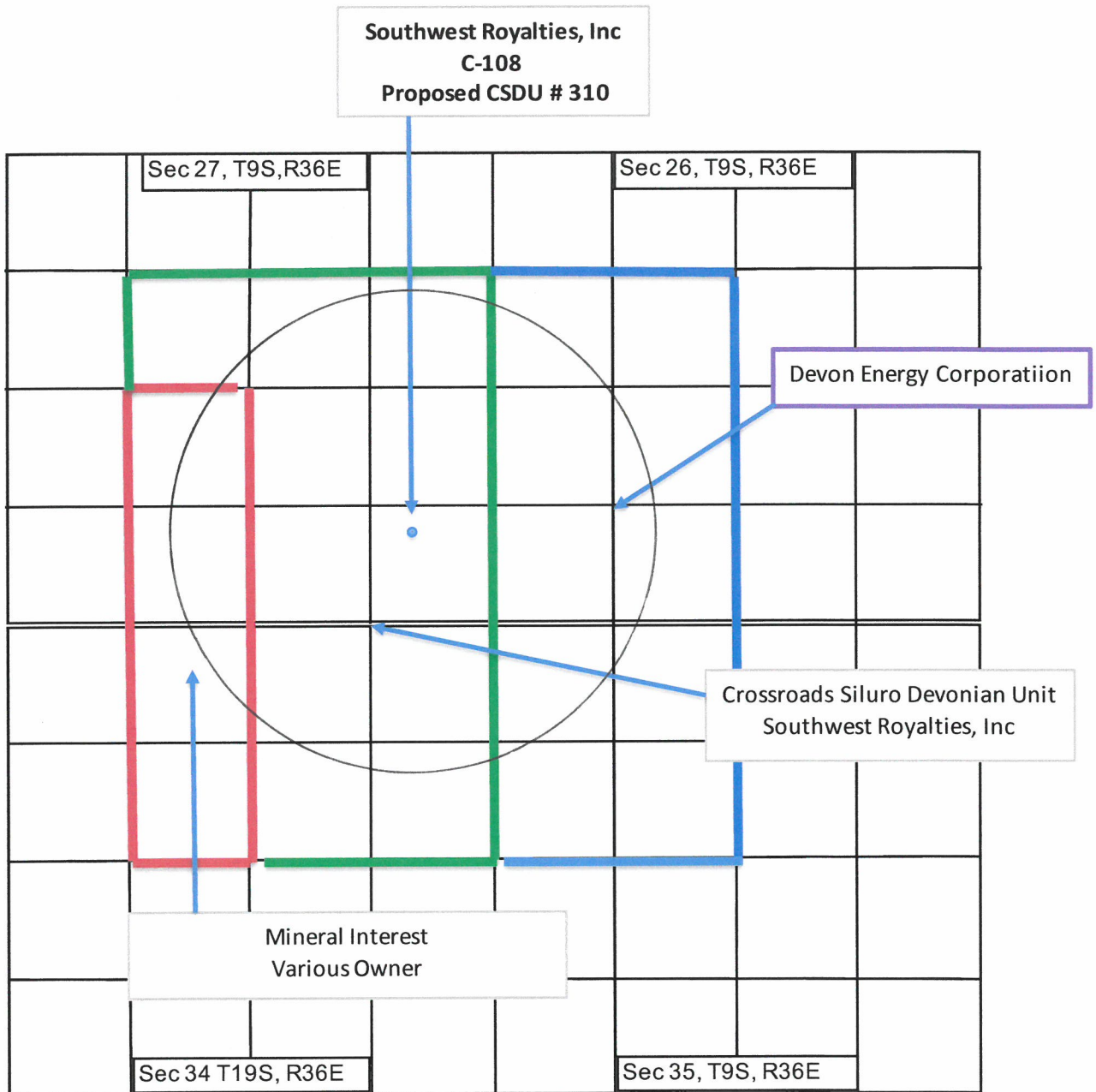
Water Analysis Report

Customer:	Southwest Royalty	Sample #:	147485
Area:	Permian Basin	Analysis ID #:	127111
Lease:	Fresh Water Well		
Location:	3		0
Sample Point:	Wellhead		

Sampling Date:	12/23/2020	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/30/2020	Chloride:	96.5	2.72	Sodium:	37.6	1.64
Analyst:	Catalyst	Bicarbonate:	197.6	3.24	Magnesium:	22.4	1.84
TDS (mg/l or g/m3):	440.7	Carbonate:			Calcium:	52.5	2.62
Density (g/cm3):	1.003	Sulfate:	20.0	0.42	Potassium:	10.9	0.28
		Borate*:	2.0	0.01	Strontium:	1.1	0.02
		Phosphate*			Barium:	0.1	0.
Hydrogen Sulfide:	0	*Calculated based on measured elemental boron and phosphorus.			Iron:	0.0	0.
Carbon Dioxide:	15				Manganese:	0.004	0.
Comments:		pH at time of sampling:		7.05			
		pH at time of analysis:					
		pH used in Calculation:		7.05			
		Temperature @ lab conditions (F):		75	Conductivity (micro-mhos/cm):		587
					Resistivity (ohm meter):		17.0358

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.40	0.00	-2.39	0.00	-2.46	0.00	-2.35	0.00	-0.31	0.00
100	-0.26	0.00	-2.38	0.00	-2.39	0.00	-2.32	0.00	-0.44	0.00
120	-0.10	0.00	-2.37	0.00	-2.29	0.00	-2.28	0.00	-0.55	0.00
140	0.06	1.40	-2.34	0.00	-2.17	0.00	-2.23	0.00	-0.63	0.00
160	0.23	5.61	-2.31	0.00	-2.04	0.00	-2.18	0.00	-0.69	0.00
180	0.41	9.81	-2.27	0.00	-1.89	0.00	-2.12	0.00	-0.73	0.00
200	0.59	14.36	-2.23	0.00	-1.73	0.00	-2.05	0.00	-0.75	0.00
220	0.78	18.57	-2.19	0.00	-1.56	0.00	-1.98	0.00	-0.75	0.00

Exhibit "E"



Surface Owner
Williams Ranch
PO Box 1172
Seagraves, TX 79359

Exhibit "F"

Southwest Royalties, Inc
OGRID 21355
C-108 CSDU #310
Notified Parties

NAME	ADDRESS	CITY STATE ZIP
Williams Ranch	PO Box 1172 Surface Owner	Seagraves TX 79359
Southwest Royalties	PO Box 53570 Operator CSDU T9S R36E	Midland TX 79705
Section 27 N2,SE4 Section 34 E2		
Devon Energy Corporation	333 West Sheridan Ave T9S R36E Section 26 All Section 35 N2	Oklahoma City, OK 73102
Mineral Owners T9S, R36E Section 27 SW4 Section 34 NW4		
Candace Good Jacob Revocable Trust	462 Vista Joy	Santa Fe NM 87505
Thomas Jefferson Good III c/o Susi K Thompson	13301 County Road V	McLean VA 79057
Susi K Thompson 2012 Family Trust	13301 County Road V	McLean VA 79057
Thomas Jefferson Good IV	1222 East Villa Nicole	San Tan Valley AZ 85140
Red Mud Trust	13301 County Road V	McLean VA 79057
El Jefe y Bandito	1222 East Villa Nicole	San Tan Valley AZ 85140

Exhibit "F"



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0257.

Item Details

Status: Delivered, Left with Individual
Status Date / Time: March 8, 2021, 9:57 am
Location: MCLEAN, TX 79057
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:

S. Thompson
Covid 19

Address of Recipient:

13301
CKV

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

McLean, TX 79057

0634
01

Postmark
Here

03/04/2021

For Instructions

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$1.75
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total	\$7.55

7020 3160 0002 2409 0257

SUSI K THOMPSON 2012
13301 COUNTY ROAD V
MCLEAN VA 79057



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0271.

Item Details

Status: Delivered, Left with Individual
Status Date / Time: March 8, 2021, 9:56 am
Location: MCLEAN, TX 79057
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:	S. Thompson Covid 19
Address of Recipient:	13301 CR V

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
McLean, TX 79057	
Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
☐ Return Receipt (hardcopy)	\$1.75
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
	\$7.55
RED MUD TRUST	
13301 COUNTY ROAD V	
MCLEAN VA 79057	
0634 01	03/04/2021
Postmark Here	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0264.

Item Details

Status: Delivered, Left with Individual
Status Date / Time: March 8, 2021, 1:49 pm
Location: SAN TAN VALLEY, AZ 85140
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:	C-19 R. H. B. V.
Address of Recipient:	1222 Villa Nicole San Tan Valley, AZ

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
San Tan Valley, AZ 85140	
Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
☐ Return Receipt (hardcopy)	\$1.75
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
To	\$7.55
Postmark Here	03/04/2021
THOMAS JEFFERSON GOOD IV	
1222 E VILLA NICOLE	
SAN TAN VALLEY AZ 85140	
See Reverse for Instructions	

Tracking Number: 70203160000224090295

Remove X

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

In-Transit

March 13, 2021
In Transit to Next Facility

Get Updates ✓**See More** ✓

Feedback

Tracking Number: 70203160000224090233

Remove X

Your item was forwarded to a different address at 8:12 pm on March 8, 2021 in SANTA FE, NM. This was because of forwarding instructions or because the address or ZIP Code on the label was incorrect.

Alert

March 8, 2021 at 8:12 pm
Forwarded
SANTA FE, NM

Get Updates ✓**Can't find wh**

Go to our FAQs section to find answers to your tracking

FAQs

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Santa Fe, NM 87505

Certified Mail Fee \$3.60

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$1.75
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00

Postage \$2.20

\$7.55

**CANDACE GOOD JACOB
REVOCABLE TRUST
462 VISTA JOY
SANTA FE NM 87505**

0634 01

Postmark Here

03/04/2021

7020 3160 0002 2409 0233

SEE REVERSE FOR INSTRUCTIONS



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0226.

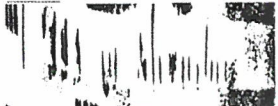
Item Details

Status: Delivered
Status Date / Time: March 8, 2021, 9:42 am
Location: OKLAHOMA CITY, OK 73102
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Oklahoma City, OK 73102

OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total	\$7.55

Postmark Here

0634 01

03/04/2021

DEVON ENERGY CORP
333 W SHERIDAN AVE
OKLAHOMA CITY OK 73102

7020 3160 0002 2409 0226

0634 01

03/04/2021

for Instructions



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0288.

Item Details

Status: Delivered, Left with Individual
Status Date / Time: March 8, 2021, 1:49 pm
Location: SAN TAN VALLEY, AZ 85140
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:

C-19
R. J. B. O.

Address of Recipient:

1222 N. M.

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

7020 3160 0002 2409 0288

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
San Tan Valley, AZ 85140	
Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	\$0.00
☐ Return Receipt (hardcopy)	\$1.75
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
	\$7.55
0634 01	
Postmark Here	
03/04/2021	
EL JEFE Y BANDITO 1222 E VILA NICOLE SAN TAN VALLEY AZ 85140	
See Reverse for Instructions	



March 9, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0240.

Item Details

Status: Delivered, Left with Individual
Status Date / Time: March 8, 2021, 9:55 am
Location: MCLEAN, TX 79057
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:

S. Thompson
Covid-19

Address of Recipient:

13301
CK V

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

7020 3160 0002 2409 0240

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
McLean, TX 79057	
Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$1.75
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total	\$7.55
THOMAS JEFFERSON GOOD III C/O SUSI K THOMPSON 13301 COUNTY ROAD V MCLEAN VA 79057	
Postmark Here	
03/04/2021	
0634 01	
PS Form 3800, PSN 7530-01-000-9000	



March 15, 2021

Dear Billy Prichard:

The following is in response to your request for proof of delivery on your item with the tracking number:
7020 3160 0002 2409 0301.

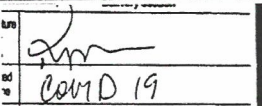
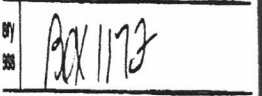
Item Details

Status: Delivered, Individual Picked Up at Post Office
Status Date / Time: March 15, 2021, 10:08 am
Location: SEAGRAVES, TX 79359
Postal Product: First-Class Mail®
Extra Services: Certified Mail™
Return Receipt Electronic

Shipment Details

Weight: 7.0oz

Recipient Signature

Signature of Recipient:	
Address of Recipient:	

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

Thank you for selecting the United States Postal Service® for your mailing needs. If you require additional assistance, please contact your local Post Office™ or a Postal representative at 1-800-222-1811.

Sincerely,
United States Postal Service®
475 L'Enfant Plaza SW
Washington, D.C. 20260-0004

7020 3160 0002 2409 0301

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
Seagraves, TX 79359	
Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	\$0.00
☐ Return Receipt (electronic)	\$0.00
☐ Certified Mail Restricted Delivery	\$0.00
☐ Adult Signature Required	\$0.00
☐ Adult Signature Restricted Delivery	\$0.00
Postage	\$2.20
Total Postage and Fees	\$5.80
Postmark Here	
03/09/2021	
Sent to: Williams Ranch PO Box 1172 City, Seagraves TX 79359	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Midland TX 79710

Certified Mail Fee \$3.60
 \$0.00
 Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$1.75
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$2.00

\$ Tot \$7.35

\$
 Ser SOUTHWEST ROYALTIES
 Str PO BOX 53570
 City MIDLAND TX 79705

PS See Reverse for Instructions

0634
 01

Postmark
 Here

03/04/2021

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SWR



9590 9402 5966 0062 3689 26

2. Article Number (Transfer from service label)

70203160000224090219

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [Signature]

☐ Agent
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

3-11-21

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)

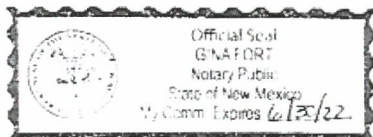
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

[illegible]

And that the cost of publishing said notice is the sum of \$ 59.07 which sum has been (Paid) as Court Costs.

Gina Fort
Notary Public, Lea County, New Mexico
My Commission Expires June 30, 2022



Published in the Lovington Leader January 28, 2021