# Initial

# Application

# Part I

Received 3/16/21

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

#### Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

# 1ETP4-210315-C-1080 APPLICATION FOR AUTHORIZATION TO INJECT PBL2107645690

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Application qualifies for administrative approval? Yes No	Storage
II.	OPERATOR: Seguro Oil and Gas, LLC	
	ADDRESS: PO Box 3176, Midland, TX 79702	
	CONTACT PARTY: S. Paul Anderson PHONE:	432-219-0740 ext 10
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?YesX_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-haldrawn around each proposed injection well. This circle identifies the well's area of review.	f mile radius circle
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed data shall include a description of each well's type, construction, date drilled, location, depth, record of complet of any plugged well illustrating all plugging detail.	
VII.	I. Attach data on the proposed operation, including:  SWD-241	2
	<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 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 proper chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature wells, etc.).</li> </ol>	oosed well, attach a
*VIII	III. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, to Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any su be immediately underlying the injection interval.	g waters with total
IX.	Describe the proposed stimulation program, if any.	
*X.	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.	II. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within injection or disposal well showing location of wells and dates samples were taken.	n one mile of any
XII.	I. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underinking water.	
XIII.	II. Applicants must complete the "Proof of Notice" section on the reverse side of this form.	
XIV.	V. Certification: I hereby certify that the information submitted with this application is true and correct to the best of belief.	of my knowledge and
	NAME: Donna Sturdivant	
	SIGNATURE:DATE:DATE:	
*	E-MAIL ADDRESS: donna@seguro-llc.com  If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not Please show the date and circumstances of the earlier submittal:	

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

#### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

#### INJECTION WELL DATA SHEET

LL LOCATION: 2100 FSL 547 FEL		07	09S	38E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC Copies of the existing and the proposed WBD are Attached Separately		WELL Co Surface	ONSTRUCTION DAT Casing	<u> </u>
	Hole Size: 17.5		Casing Size: 13.37	<b>7</b> 5
	Cemented with: 50	0 of Class C sx.	or	ft
	Top of Cement: 0		Method Determined	d: Circ
		<u>Intermedia</u>	te Casing	
	Hole Size: 12.25		Casing Size: 9.625	5
	Cemented with: 170	00 of POZ sx.	or	ft
	Top of Cement: 0		Method Determined	d: Circ
		Production	n Casing	
	Hole Size: <u>8.75</u>		Casing Size: 5.5	
	Cemented with: 91	O Class C sx.	or	ft
	Top of Cement: 91	14	Method Determined	d: CBL
	Total Depth: 11687	7		

(Perforated or Open Hole; indicate which)

#### **INJECTION WELL DATA SHEET**

Tul	bing Size: 2.875 Lining Material: Falcon Modified Polycore	
Ty <sub>]</sub>	pe of Packer: Arrow-set 1-X Packer	
Pac	cker Setting Depth: 9606	
Otl	her Type of Tubing/Casing Seal (if applicable): N/A	
	Additional Data	
1.	Is this a new well drilled for injection?YesXNo	
	If no, for what purpose was the well originally drilled? Production	
2.	Name of the Injection Formation: Pennsylvanian and Devonian	
3.	Name of Field or Pool (if applicable): 55290 Sawyers; 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	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  Sep Andrea 4.262' and Devenier 11.660'	_
	San Andres 4,263' and Devonian 11,669'	

JCT Federal & #1 (API = 30-025-38350) 2,100 FSL and 547' FEL Section 7, T-9-S, R-38-E Lea County, New Mexico GL=3972' KB=3990' KB=18' above GL

#### Convert well to water injection

- 1. MIRU workover rig. Unseat pump and PU tubing. POOH and LD rods and pump. ND wellhead. NU BOP. POOH production tubing. Please note that the T.A.C. is set at 11,591', but the SN is at 3100'. Tubing could be corroded below the S.N. Check string wt prior to pulling out of the hole. Inspect well head for corrosion. Make sure wellhead will not be an issue during MIT test later in the procedure. Have racks for new IPC tubing and stab-in guide for new IPC tubing.
- 2. PU 4-3/4" used bit and 5.5" 17# casing scraper and RIH w/ production tubing Hydrotest to tubing to 9,000 psig. RIH to +/- 10,000'. POOH Leaving tubing in the derrick. LD bit and scrapper. PU and RIH with treating packer. RIH and set packer at +/- 10,000'. Pressure up on the back side and confirm that the squeeze holes at 5680-82' and 8028' do not leak. At this point. Rig up pump truck and pump into the Devonian perforations (11,673'-11,681'). Establish rate and pressure. At this point, determine if Devonian perforations should be included in the disposal interval. If the Devonian does not provide commercial disposal rates, plan to set the CIBP as shown in **Step 3.**
- 3. MIRU wireline unit. PU and RIH with 5.5" CIBP and set CIBP at 11623'. Spot cement on top CIBP. Pressure up and 500 psig and test CIBP and the two sets of squeeze holes at 5680-5682 and 8028'. PU and RIH with 4" casing guns. Perforate as follows: 9656'-9658' (6 spf 60 degree phasing), 9706'-9714' (6 spf 60 degree phasing), 9763'-9774' (6 spf 60 degree phasing), and 9802'-9810' (6 spf 60 degree phasing). POOH and RD wireline unit.
- 4. PU and RIH with Ni-Cr coated Arrow-set 1-X packer (Ni-Cr coated Baker Model "R" DG will also work). RIH with new 2-7/8" 6.4# IPC EUE injection string tubing. Set packer at +/- 9606'. Load back side with fresh water packer fluid. ND BOP, NU wellhead. Plan to have a new ring gasket on location. Test back side to 500 psig and run a chart for thirty minutes or per NMOCD regulations.
- **5.** Be prepared to have enough produced water on location to run a step-rate test.
- **6.** Run a step-rate test and determine maximum injection pressure before exceeding breakdown pressure. Start at NMOCD injection gradient pressure initially, and then move injection rate up in steps. RDMOSU.

JCT Federal & #1 (API = 30-025-38350) 2,100 FSL and 547' FEL Section 7, T-9-S, R-38-E Lea County, New Mexico GL=3972' KB=3990' KB=18' above GL

#### Page 2 Convert well to injection

7. Re-configure the existing injection lines and be prepared to tie well in to the transferred or newly built injection facilities. Do not start injection unless the BLM and NMOCD have approved subject well for injection.

#### **OPERATIONAL DETAILS**

- 1. Avg Injection-2000bw/d, Max Injection-3000bw/d
- 2. Open System
- 3. 2,300psi, pending step rate test

District 1 1625 N. French Dr., Hobbs NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 68210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

Santa Fe, NM 87505 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number eveniar 30-*025-38350* Well Number JCT FEDERAL Elevation Operator Name 3972 J. Cleo Thompson <sup>10</sup>Surface Location North/South line Feet from the Feet from the East/West line UL or lot no. Section Township Range Lot Idn 547 2100 South East Lea 7 9 S 38 E 11Bottom Hole Location If Different From Surface Feet from the East/West line County North/South line Lot Idn Feet from the UL or lot no. Section Township Range <sup>14</sup>Consolidation Code 15Order No. 12 Dedicated Agres 13 Joint or Infill NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNITL ALL INTERESTS HAVE BEEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16		<u> </u>	<sup>17</sup> OPERATOR CERTIFICATION
16			
			/ hereby certify that the information contained herein is
			true and complete to the best of my knowledge and
			balia!
			19 Stern
			Sympture
			Jim STEVENS
	 		Tim STEVENS
			Printed Mame
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			OS MAR ISTOVANSO TCLED THE and E-mail warren COM
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			Man-11, 000/
		mingen	18 CANDING TO BE CONTROLLED ON THE CONTROL OF THE C
	1	, 1/	<sup>18</sup> SURVEYOR CERTIFICATION
	7		I hereby certify that the well location shown on this plat
	1	Elev. 3972' → 547'	was plotted from field notes of actual surveys made by
	-/	MAD 27 NM E	ne or under my supervision, and that the same is true
		N= 928897	and correct to the best of my belief.
		E= 881466	
	7		12-11-2006 LEL L STAN
	 		Date of Survey  Signature and Seal of profiles many pure seal of the seal of profiles many pure seal of the seal o
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			Certificate Number 10324
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24 Miles <u>NE</u> of <u>Tatum</u>, New Mexico.

File No. <u>A-3269.DWG</u>

### Seguro Oil & Gas, LLC

JCT Federal 7 #1 API: 30-025-38350



Lea Co., NM

Location: 2,100FSL & 547FEL of Section 7, T9S R38E

GL: 3,972ft; KB: 3,990ft

Well Bore Diagram as of 1-31-2021 **Current** WELL BORE DIAGRAM

17-1/2" Hole: 13 3/8" 48# NEW H-40 ST&C csg set @ 519ft. Cmtd 300sx 35:65:6'C' + 2% CaCls + 0.25 ppsk celloflake (1.97/12.5ppg). Tail with 200sx "C" +2% CaCl2 (1.33/14.8ppg). Circulate 175sx to pit. Test Csg to 600psi for 15min. Held okay.

12-1/4" Hole: Ran 27jts 40# HCK & 88 JTS 40# J-55 LT&C 9-5/8" Csa set @ 5.118ft. CMT w/ 1500sx 50/50pox + 5%salt + 10%gel + 0.25ppsk celloflake (Slurry Vol: 654.51). Tail w/200sx neat (slurry vol:

47.73), Circ 215sx to pits.

Test csg to 1500psi for 15min. Held OKAY

Rod Count: 46 - 7/8"C, 68 - 3/4"C, 6 1-1/2" Kbars

Rod Pump: 2-1/2"x1-3/4"x16' RHBC

(pump anchor @ 3100')

TAC Set @: 11,591'; 2-7/8" x 5-1/2"

SN: 11,655'

End of Tbg: 11,655' 2-7/8" 6.4# L80 EUE

8rd tbg (363jts)



Comp: 9-29-2007

Spud: 6-21-2007

<u>Forma</u>	ation To	<u>ps</u>
<b>Formation</b>	Top MD	Top (SS)
Rustler:	2,338'	(+1,652')
Yates:	2,882'	(+1,108')
San Andres:	4,263'	(- 273')
Abo:	7,638'	(-3,648')
Wolfcamp:	8,810'	(-4,820')
Three Brothers	s: 9,246'	(-5,256')
Bough C:	9,492	(-5,502)
Mississippian:	11,408'	(-7418')
Devonian:	11,669'	(-7,679')

SZQ (2nd): Perf: 9-18-2007 @ 5680-82ft, 2holes: Sqzd w/ 950sx; Lead 800sxs 50/50Poz, Tail: 150sx class C Neat. Circ Cmt to Surface.

SQZ (1st): Perf: 9-13-2007 @ 8028ft, 4holes: Sqzd w/ 1030sx; Lead 930sxs 50/50Poz, Tail: 100sx class H Neat

Original TOC = 9114ft (CBL) SQZ (1st) TOC = 5706ft (CBL)SQZ (2nd) TOC = Surface

Perf: 11,673.5 - 74.5ft, 1SPF; 11,676.6 - 77.6ft, 11,679.5 - 81ft, 4SPF. Spot 500gal 15% HCl NeFe Acid

8-3/4" Hole: Run 5-1/2" 17# P110/N80 LT&C csg set @ 11,687ft. Cmt 910sx 50:50:2-P,H,Gel+5%Salt+3#/sx LCM +5%FL252%SM. (Wt: 14.2ppg, Yld=1.3, Wtr=5.57gal/sk)

TD: 11,687ft

### Seguro Oil & Gas, LLC

JCT Federal 7 #1

API: 30-025-38350

Lea Co., NM

Location: 2,100FSL & 547FEL of Section 7, T9S R38E

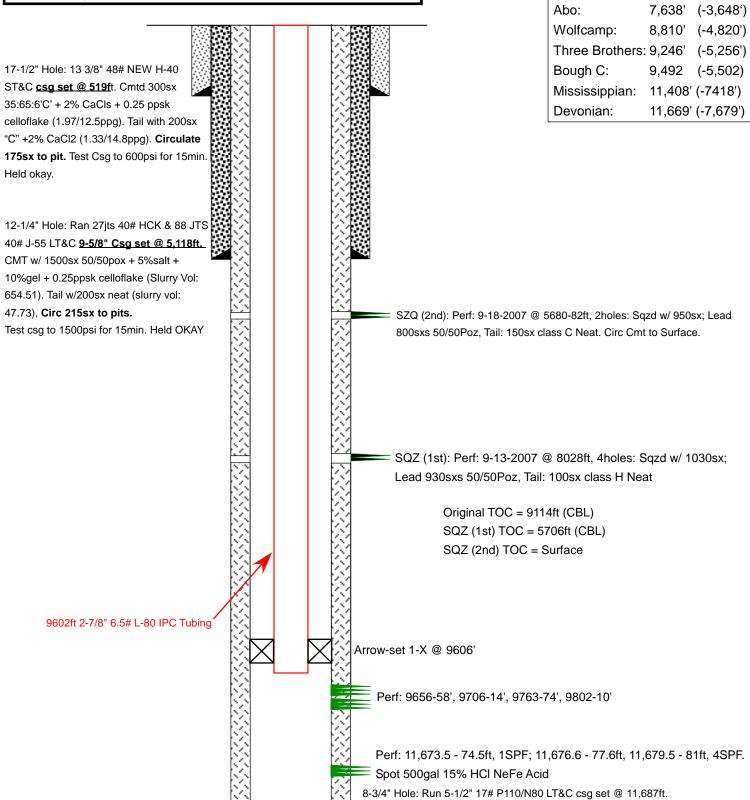
GL: 3,972ft; KB: 3,990ft

Well Bore Diagram as of 1-31-2021 **Proposed** WELL BORE DIAGRAM



Spud: 6-21-2007 Comp: 9-29-2007

<u>Forma</u>	tion To	<u>ps</u>
Formation I	op MD	Top (SS)
Rustler:	2,338'	(+1,652')
Yates:	2,882'	(+1,108')
San Andres:	4,263'	(- 273')
Abo:	7,638'	(-3,648')
Wolfcamp:	8,810'	(-4,820')
Three Brothers	: 9,246'	(-5,256')
Bough C:	9,492	(-5,502)
Mississippian:	11,408'	(-7418')
Devonian:	11,669'	(-7,679')



TD: 11,687ft

Cmt 910sx 50:50:2-P,H,Gel+5%Salt+3#/sx LCM +5%FL252%SM.

(Wt: 14.2ppg, Yld=1.3, Wtr=5.57gal/sk)

### JCT 7 Federal #1 Lea County, New Mexico Notified on March 10, 2021

#### SURFACE OWNER OF RECORD TO PROPOSED SWD

SW/4, W/2SE/4 and NE/4SSE/4, Section 7 (also described as S ½ Section 7)

Tommy Gene Gandy 1646 St., 408 Hwy Crossroads, NM 88114

#### OFFSET OPERATORS WITHIN 1/2 MILE OF PROPOSED SWD

Kem Ventures, LP 22136 Westheimes Parkway #358 Katy, Texas 77450

Prime Operating Company 3300 N. "A" Street, #1-238 Midland, TX 79705

A copy of the New Mexico OCD Form C-108 was mailed to the above-named Surface Owners and Offset Operators on the date stated.

S. Paul Anderson

President



1



DOWNTOWN MIDLAND 100 E WALL ST MIDLAND, TX 79701-9998 (800)275-8777

(80	00}275-	8/7/	
03/10/2021			11:07 AM
Product First-Class Mail®	Qty	Unit Price	Price
Letter	1		\$0.75
Midland, TX 79 Weight: O lb 1. Estimated Deliv Sat 03/13/2	.50 oz /ery Da <sup>.</sup>	te	
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## **Affidavit of Publication**

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated March 11, 2021 and ending with the issue dated March 11, 2021.

Publisher

Sworn and subscribed to before me this 11th day of March 2021.

Business Manager

My commission expires

Jahuary 29, 2023 (Seal



OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

My Commission Expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGALS

LEGAL NOTICE March 11, 2021

Seguro Oil and Gas LLC, has filed a form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to convert the JCT 7 Federal #1 well to a water disposal well.
The JCT 7 Federal #1
SWD is located in Unit I, Section 7, Township 9S, Range 38E, 2100 FSL and 547 FEL in Lea County, New Mexico. The well will dispose of water produced from nearby operated oil and gas wells into the Pennsylvanian and Devonian formations into an open-hole interval from a depth of 9,656 feet to 11,681 feet at an expected maximum injection rate of 3,000 BWPD, at a maximum injection pressure of 2,300 psi. Interested parties must file objections or requests for hearings with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. The name and address of the contact party for the application is Paul Anderson, Seguro Oil and Gas, LLC, PO Box 3176. Midland, TX 79702, (432) 219-0740 Ext. 10. The well is

located approximately 24

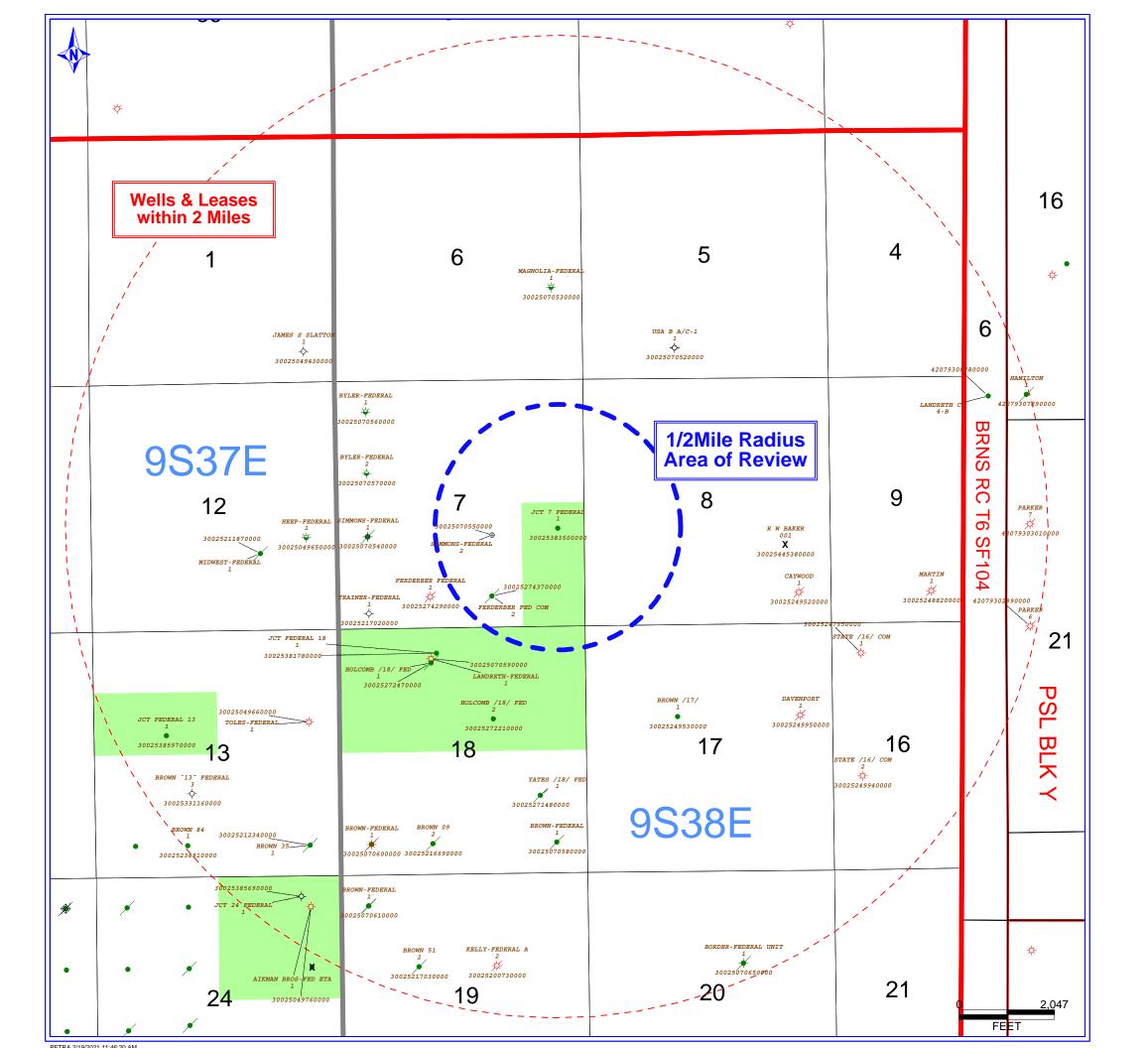
miles, NE of Tatum, New

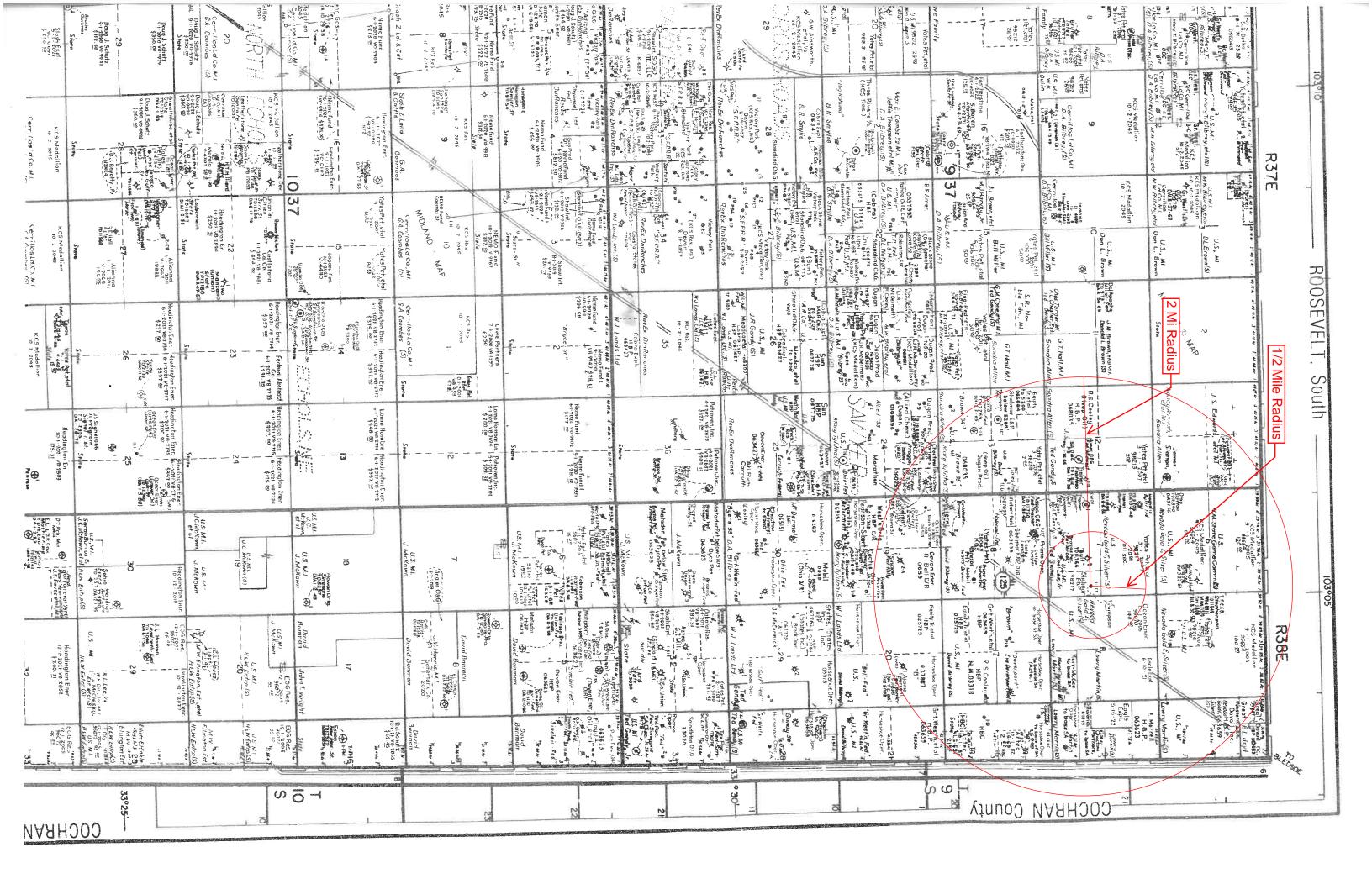
Mexico. #36281

67116691

00251925

DONNA STURDIVANT SEGURO OIL AND GAS, LLC





# **Brazos Petroleum Co.**

Ferderber Fed Com #2

API: 30-025-2737

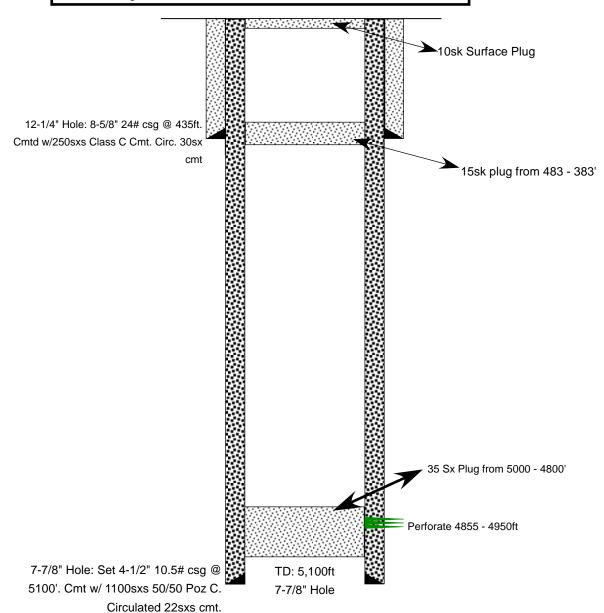
Lea Co., NM

Location: 660FSL & 1980FEL of Sec 7, T9S R38E

GL: 3967ft; KB: 3977ft

#### Spud: 6-6-1957

<u>Form</u>	Formation Tops				
<u>Formation</u>	Top MD	Top (SS)			
T/ Rustler:	2,270'	(+1,707')			
T/Yates:	2,876'	(+1,101')			
T/San Andres	: 4,240'	(-263')			

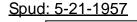


# **Gulf Oil Corporation**

7-7/8" Hole

Simmons-Federal #2 API: 30-025-07055

Lea Co., NM



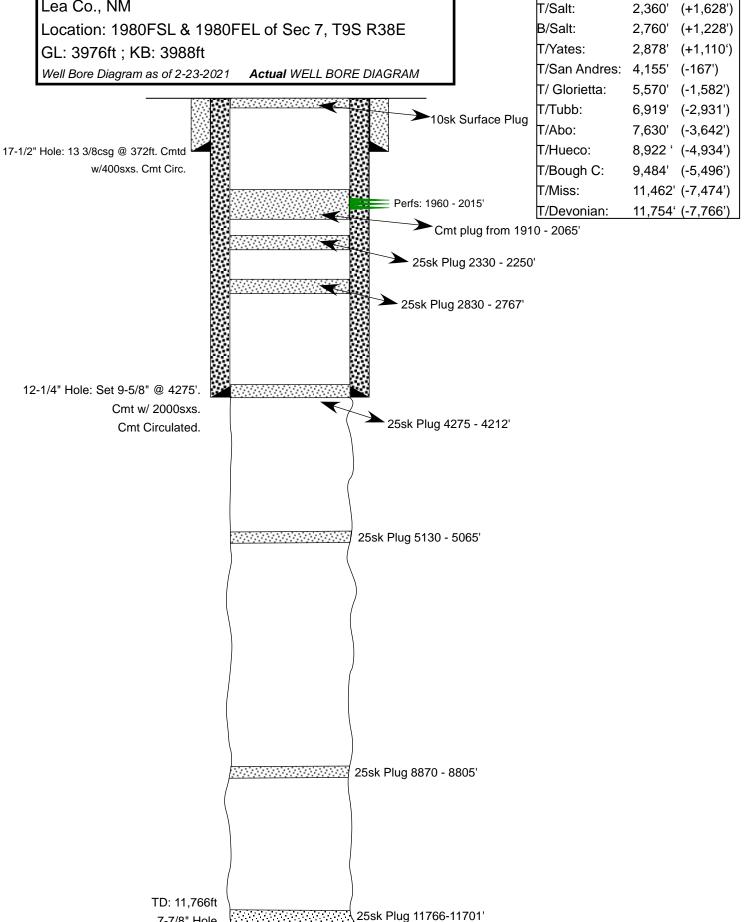
<u>Formation</u>

T/ Rustler:

**Formation Tops** 

Top MD Top (SS)

2,290' (+1,698')



# <u>TABULATION OF WELLS WITHIN .5 MILE RADIUS</u> <u>OF THE JCT 7 FEDERAL #1</u>

Simmons-Federal #2 API# 30-025-07055

Ferderber Federal Com #2 API# 30-025-27437 Data prepared by: Kenneth W. Keene

Affiliation: The Roswell Geological Society

Date:

5-1-56

Field Name: Allison (Pennsylvanian)

Location: T. 9S., R. 36E.

County & State: Lea County, New Mexico

DISCOVERY WELL: Warren #1 Federal Mills

COMPLETION DATE: 2-16-54

PAY ZONE: The Allison field produces from the Bough "C" zone which is a fine crystalline, tan and gray, vuggy limestone. This zone carries late Cisco fossils indicating

that the Bough "C" zone is Pennsylvanian in age.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in n	nillidarcys	% Porosity	Liquid Saturation (% of pore space)			
Horizontal	Vertical		Water	Oil		
281	0.5	6.6	35.8	5.5		

OTHER SHOWS ENCOUNTERED IN THIS FIELD: Basal Abo @ 9,000 feet: Fine crystalline sucrosic dolomite.

Thickness normally 10 feet.

TRAP TYPE: Stratigraphic

NATURE OF OIL: Gravity 48° - 49° A.P.I.

NATURE OF GAS: 3 1/2 gallons distillate per 1,000 cubic feet of sweet gas.

ohm-meters @ NATURE OF PRODUCING ZONE WATER: Resistivity: .07 HCO<sub>3</sub> OH H<sub>2</sub>S **SO 4** C1 **Total Solids** Na/K Mg Fe CO<sub>2</sub> 73,120 377 None 675 37,300 6,080 1,895  $\operatorname{Tr}$ 

INITIAL FIELD PRESSURE: 3,363 psi (8-26-54) at a depth of 5,600 feet below sea level

TYPE OF DRIVE:

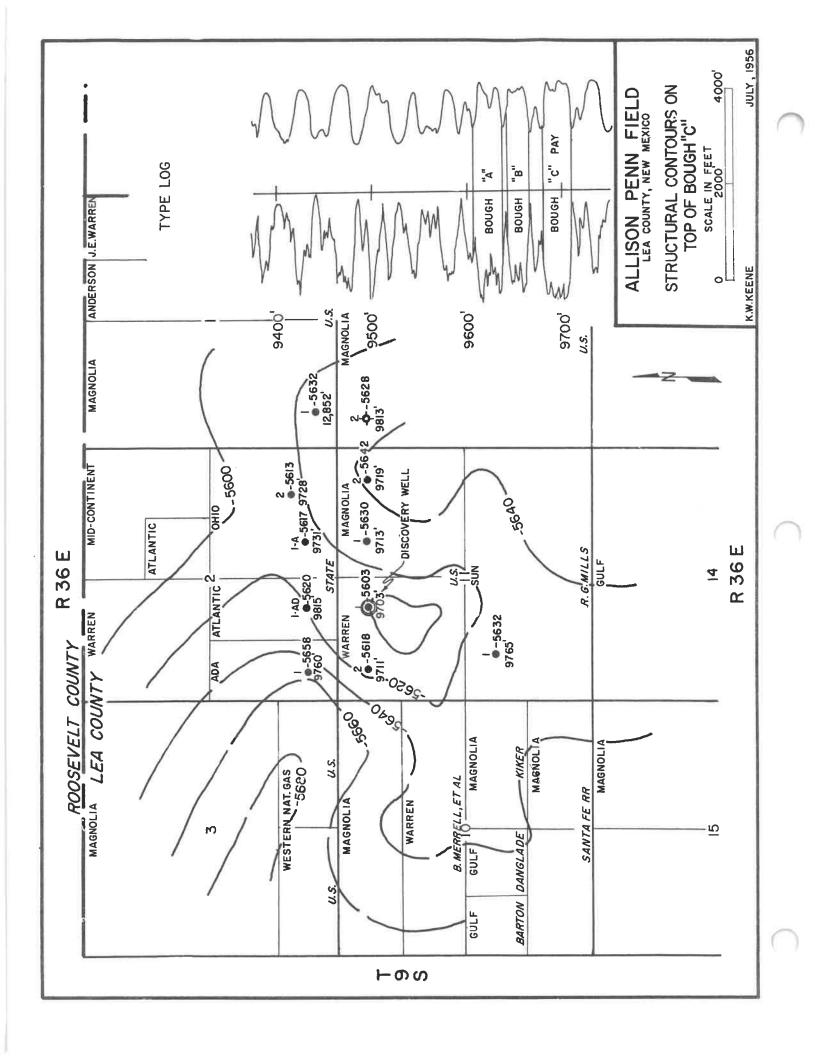
Water drive

NORMAL COMPLETION PRACTICES: Production string either set above the porosity and produced open hole or set through and perforated at operators discretion.

PRODUCTION DATA: (Discovery well completed February 16, 1954)

No	. of v	wells	@ yr. end	Р	roduction	No	. of	wells	@ yr. end	Proc	luction
Year	Туре		Shut in or	Oil in barrels Gas in MMCF		Year	Туре	Prod.	Shut in or	Oil in barrels Gas in MMCF	
>	Ė.	<u>~</u>	Abnd.	Annual	Cumulative	>	F	_	Abnd.	Annual	Cumulative
	oil						oil				
941	gas					1949	gas				
	oil						oil				
942	gas					1950	gas				
	oil						oil				
943	gas					1951	gas				
	oil						oil				
1944	gas					1952	gas				
	oil						oil				
1945	gas					1953	gas				
	oil						oil	5	0	145,247	145,247
1946	gas					1954	gas				
	oil						oil	8	0	317,053	462,300
947	gas					1955	gas				
	oil						oil	9	0	126,719	589,019
1948	qas					1956	*gas				

<sup>\* 1956</sup> Figure is production to 5-1-56.



1996 Beek

Data prepared by:

T.G. Kelliher, Jr.

Affiliation: Warren Petroleum Corp.

12-11-56

Field Name: Sawyer (Devonian)

Location: T. 9 S., R. 38 E., Sec. 7

County & State: Lea County, New Mexico

DISCOVERY WELL: Warren Pet. Corp. Fed. Simmons #1

COMPLETION DATE: 8-13-55

PAY ZONE: Devonian dolomite, medium coarse crystalline white and buff, with vuggy porosity.

The original oil water contact was at a depth of 7,675 feet below sea level.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in millidarcys		% Porosity	Liquid Saturation (%	
Horizontal	Vertical	70 . 0.00117		of pore space)
	Torrical		Water	Oil

OTHER SHOWS ENCOUNTERED IN THIS FIELD: The San Andres formation was cored and showed good signs of oil, but upon analysis proved to be non-productive.

TRAP TYPE:

Faulted anticline

NATURE OF OIL:

Gravity 42.7° A.P.I.

NATURE OF GAS:

	Takai Calida	RODUCING ZONE WATER:		Calida N. 116 a. I. Resistivity:		stivity:	ohm-meters @			°F	
	Total Solids	Na≠K	Ca	Mg	Fe	SO 4	CI	CO <sub>2</sub>	HCO <sub>3</sub>	ОН	
opm	93,666	29,573	1.200	778	G. Tr.	1 000	(0.000		315	On	H2S

INITIAL FIELD PRESSURE: 4,607 psi.

TYPE OF DRIVE:

Water drive.

NORMAL COMPLETION PRACTICES: Electric logs were run with guard logs and radioactivity logs through the Devonian. Production string was set into the pay and perforated.

#### PRODUCTION DATA:

No. of wells @ yr. end				P	No	o. of	wells	@ yr. end	Production		
Year	Type	Prod.	Shut in or	Oil Ga	Year	Type	Prod.	Shut in or	Oil in barrels Gas in MMCF		
	oil		Abnd.	Annual	Cumulative	7 ≻	1	۵	Abnd.	Annual Cumulative	
1941							oil				Comordive
	oil					1949	gas				
1041	gas	-					oil				
1742						1950	gas				
1943 1944	oil						oil				
						1951	aas				
	oil						oil				
						1952					
1945	oil					1702	oil	-			
	gas					1052					
	oil					1953					
946	gas						oil				
	oil					1954					
947	gas						oil	1		32,419	32,419
	oil	-				1955					32,419
948		-					oil	1		25,400	F7 010
	3					1956	gas			43,400	57,819

<sup>\* 1956</sup> Figure is production to 5-1-56.

NOTE: No Devonian map is included. For nature of shallow structure refer to Sawyer (San Andres).



# Water Column/Average Depth to Water

679003

(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

**POD** 

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

3706894

(In feet)

		Sub-		Q (	) Q							V	Vater
POD Number	Code	basin	County	64 1	6 4	Sec	Tws	Rng	X	Y	DepthWellDepth	Water Co	olumn
<u>L 03881</u>		L	LE		1	05	09S	38E	678624	3715794*	70	40	30
L 14059 POD1		L	LE	3 2	2 3	31	09S	38E	677196	3706991 🌑	312	158	154

2 4 3 32 09S 38E

Average Depth to Water:

99 feet

Minimum Depth:

285

40 feet

Maximum Depth:

158 feet

**Record Count:** 3

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L 14171 POD1

**Basin/County Search:** 

County: Lea

**PLSS Search:** 

Township: 09S Range: 38E

\*UTM location was derived from PLSS - see Help

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> WATER COLUMN/ AVERAGE DEPTH TO WATER



# Water Column/Average Depth to Water

X

669614

(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) (NAD83 UTM in meters)

(quarters are smallest to largest)

(In feet)

**POD** 

Sub-QQQ

Water DepthWellDepthWater Column

**POD Number** L 13228 POD1

Code basin County 64 16 4 Sec Tws Rng 3 4 2 30 08S 38E

3621695 200

Average Depth to Water:

60 feet

140

Minimum Depth: 60 feet

Maximum Depth: 60 feet

**Record Count:** 1

**Basin/County Search:** 

County: Lea

**PLSS Search:** 

Township: 08S Range: 38E

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WATER COLUMN/ AVERAGE DEPTH TO WATER



# Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

**Basin/County Search:** 

County: Lea

PLSS Search:

Township: 08S Range: 37E

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER



# 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)

	POL Sub-		Q	Q	Q						Water
POD Number	Code basii	County	64	16	4	Sec	Tws	Rng	X	Y	DepthWellDepthWater Column
<u>L 12174 POD1</u>	L	LE	3	3	1	03	09S	37E	671884	3715421	244
L 14231 POD1	L	LE	4	1	3	27	09S	37E	672285	3708474	18
L 14231 POD2	L	LE	4	1	3	27	09S	37E	672259	3708473	26
L 14231 POD3	L	LE	4	1	3	27	09S	37E	672259	3708473	30
L 14231 POD4	L	LE	4	1	3	27	09S	37E	672285	3708474	18
L 14231 POD5	L	LE	4	1	3	27	09S	37E	672259	3708473	30
L 14777 POD1	L	LE	1	3	3	28	09S	37E	670317	3708208	158 130 28

Average Depth to Water:

130 feet

Minimum Depth:

130 feet

Maximum Depth: 130 feet

**Record Count:** 7

**Basin/County Search:** 

County: Lea

PLSS Search:

Township: 09S Range: 37E

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WATER COLUMN/ AVERAGE DEPTH TO WATER