


Initial Application Part I

Received 10/28/20

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

GCTT0-201028-C-1080STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENTOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505FORM C-108
Revised June 10, 2003**pBL2030730905****APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: _____ Secondary Recovery ☒ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: Tascosa Energy Partners, LLC 329748
ADDRESS: 901 W. Missouri, Midland, Texas 79701
CONTACT PARTY: Richard Wright PHONE: 432 288 5874
- 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 **SWD-2398**
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
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. VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geological 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: Alyssa McNear TITLE: Engineering Manager
SIGNATURE:  DATE: 9/15/2020
E-MAIL ADDRESS: adavanzo@tascosaep.com
- XV. 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: _____

Side 2

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: _____Tascosa_Energy_Partners_LLC._____

WELL NAME & NUMBER: ____Cactus #11_____

WELL LOCATION: ____2310_FSL_&_990_FWL_____	____L_____	____16_____	____21S_____	____26E_____
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: ____17.5"_____ Casing Size: ____13.375"_____

Cemented with: ____447_____ sx. **or** ____590_____ ft³

Top of Cement: ____SURFACE_____ Method Determined: ____Circulated____

Intermediate Casing

Hole Size: ____12.25"_____ Casing Size: ____8.625"_____

Cemented with: ____1490_____ sx. **or** ____2336_____ ft³

Top of Cement: ____SURFACE_____ Method Determined: ____Circulated____

Production Casing

Hole Size: ____7.875"_____ Casing Size: ____5.5"_____

Cemented with: ____490_____ sx. **or** ____907_____ ft³

Top of Cement: ____SURFACE_____ Method Determined: ____Circulated____

Total Depth: ____3502'_____

Injection Interval

____3092'_____ feet to ____3130'_____

(Perforated or Open Hole; indicate which)

See Pages #22-23

Side 2

INJECTION WELL DATA SHEET

Tubing Size: _____2.875"_____ Lining Material: _____Plastic Lined Tbg_____

Type of Packer: _____Mechanical Hostile Environment Packer_____

Packer Setting Depth: _____3050'_____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes XNo

If no, for what purpose was the well originally drilled? Drilled as a Delaware Down dip producer

2. Name of the Injection Formation: Brushy Canyon

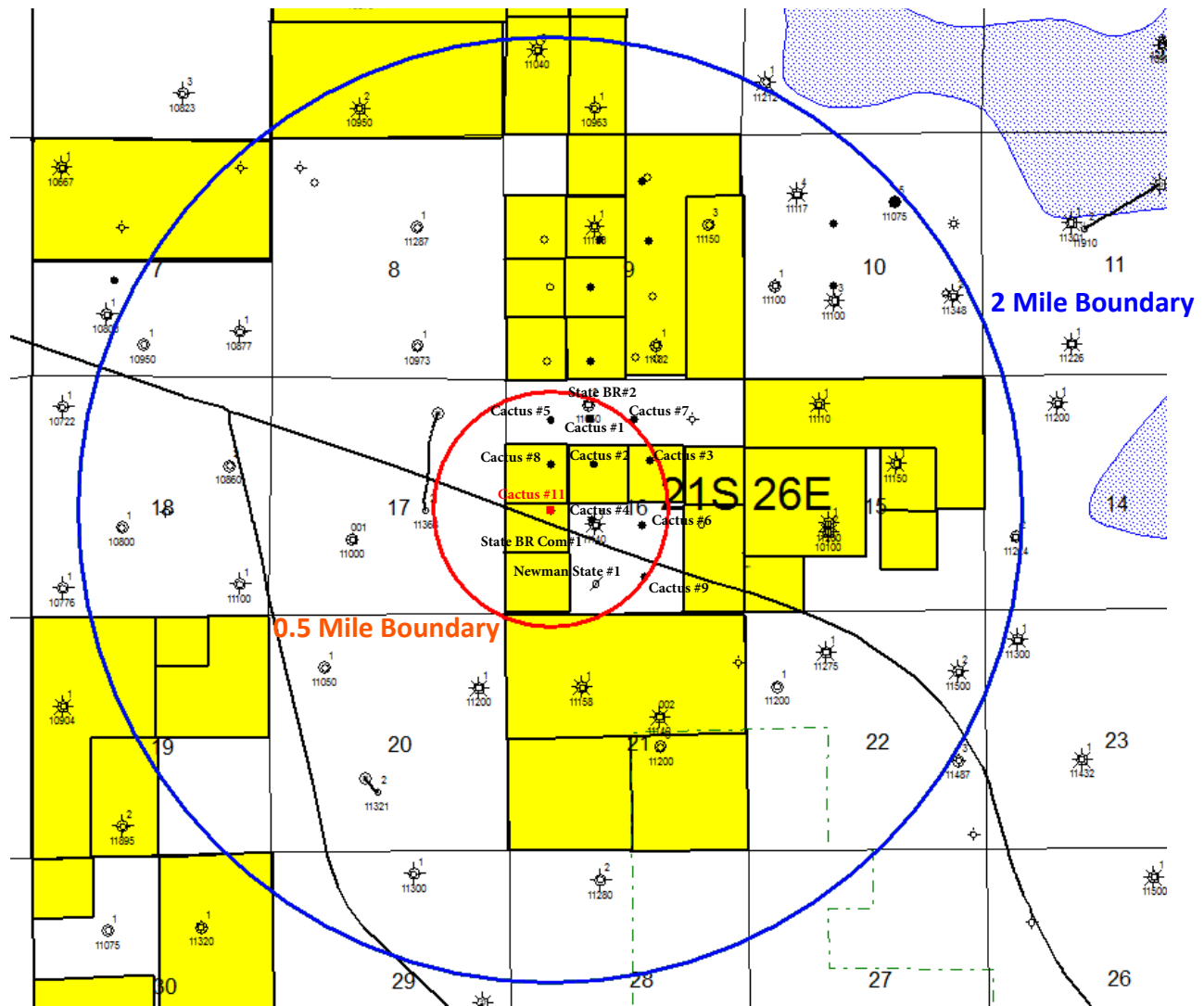
3. Name of Field or Pool (if applicable): _____

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. _____

_____N/A_____

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

_____Lower Brushy Canyon (F, E & D): ~3155'-3410'_____

V. Map of Area of Review

VI. Tabulation of Offset Wells

0.5 Mile Radius - Area of Review

Hole Direction	API	Well Name	Current Operator	Location
VERTICAL	30015003660000	NEWMAN-STATE #1	ORCUTT E	21S 26E 16
VERTICAL	30015212550001	STATE `BR` COM #1	TASCOCA ENERGY PARTNERS LLC	21S 26E 16
VERTICAL	30015216730000	STATE /BR/ COM #2	DEVON ENERGY PRODUCTION COMPANY L P	21S 26E 16
VERTICAL	30015272360000	CACTUS STATE #1	TASCOCA ENERGY PARTNERS LLC	21S 26E 16 NE NW
VERTICAL	30015277390000	CACTUS STATE #2	TASCOCA ENERGY PARTNERS LLC	21S 26E 16 SE NW
VERTICAL	30015279790000	CACTUS STATE #3	TASCOCA ENERGY PARTNERS LLC	21S 26E 16 SW NE
VERTICAL	30015280040000	CACTUS STATE #4	TASCOCA ENERGY PARTNERS LLC	21S 26E 16 NE SW
VERTICAL	30015282120000	CACTUS STATE #5	TASCOCA ENERGY PARTNERS LLC	21S 26E 16
VERTICAL	30015282130000	CACTUS STATE #6	TASCOCA ENERGY PARTNERS LLC	21S 26E 16
VERTICAL	30015282150000	CACTUS STATE #8	TASCOCA ENERGY PARTNERS LLC	21S 26E 16
VERTICAL	30015284960000	CACTUS STATE #9	DEVON ENERGY PRODUCTION COMPANY L P	21S 26E 16
VERTICAL	30015284970000	CACTUS STATE #11	TASCOCA ENERGY PARTNERS LLC	21S 26E 16

0.5 Mile Radius - Area of Review (cont.)

Well Name	Footage	Field Name	County Name	Well Status	Well Type
NEWMAN-STATE #1	660 FSL 1980 FWL CONGRESS SECTION	WILDCAT	EDDY	P&A	OIL PRODUCER
STATE `BR` COM #1	1980 FSL 1980 FWL CONGRESS SECTION	HAPPY VALLEY NE	EDDY	Active	GAS PRODUCER
STATE /BR/ COM #2	660 FNL 1830 FWL CONGRESS SECTION	AVALON	EDDY	P&A	GAS PRODUCER
CACTUS STATE #1	960 FNL 1860 FWL CONGRESS SECTION	SOAPBERRY DRAW	EDDY	Active	OIL PRODUCER
CACTUS STATE #2	1980 FNL 1945 FWL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #3	1900 FNL 2145 FEL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #4	2100 FSL 1900 FWL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #5	990 FNL 990 FWL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #6	1980 FSL 2310 FEL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #8	1980 FNL 990 FWL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	Active	OIL PRODUCER
CACTUS STATE #9	830 FSL 2260 FEL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	P&A	OIL PRODUCER
CACTUS STATE #11	2310 FSL 990 FWL CONGRESS SECTION	CATCLAW DRAW EAST	EDDY	SI	OIL PRODUCER

0.5 Mile Radius - Area of Review (cont.)

Well Name	Driller TD	Current Producing Formation	Spud Date	Comp Date	P&A Date	Elevation Gr
NEWMAN-STATE #1	1250	N/A	4/16/1942	8/4/1942	4/25/1944	3254
STATE `BR` COM #1	11140	STRAWN	6/30/1974	10/9/1974		3283
STATE /BR/ COM #2	11050	MORROW UPPER	11/14/1975	1/21/1976	1/14/2013	3283
CACTUS STATE #1	4361	DELAWARE	2/5/1993	3/31/1993		3295
CACTUS STATE #2	4400	CHERRY CANYON	1/24/1994	3/7/1994		3292
CACTUS STATE #3	4400	CHERRY CANYON	6/21/1994	10/3/1994		3298
CACTUS STATE #4	4405	CHERRY CANYON	7/5/1994	10/9/1994		3286
CACTUS STATE #5	3500	DELAWARE	3/7/1995	6/21/1995		3262
CACTUS STATE #6	3450	CHERRY CANYON	2/25/1995	3/29/1995		3315
CACTUS STATE #8	3349	DELAWARE	4/2/1995	6/27/1995		3266
CACTUS STATE #9	3600	DELAWARE	7/23/1995	9/8/1995	1/17/2019	3275
CACTUS STATE #11	3503	DELAWARE	7/10/1995	8/9/1995		3260

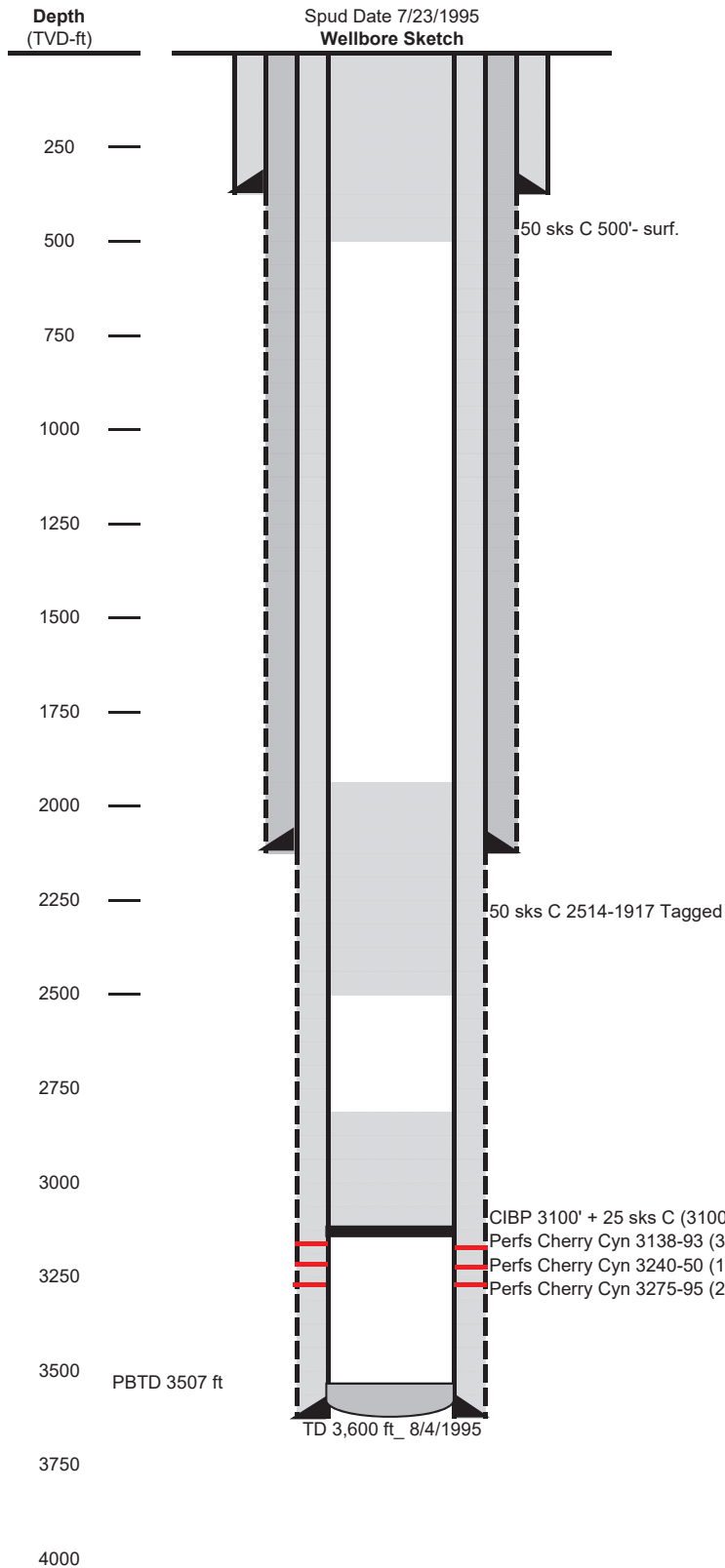
Cactus State # 9 (28496) - P&ALocation: **Section 16, T21S, R26E_Eddy County, New Mexico**

830 FSL & 2260 FEL

API # 30-015-28496

Spud Date 7/23/1995

Wellbore Sketch



Set 13-3/8" 48# H-40 STC @ 360 ft

Cmt'd w/ 375 sks C w/ 2% CC. 60 sks Circ to surface.

Tops:	
Capitan	330
Delaware Sd	2,235
Bone Sprgs	
3rd BS Sd	
Wlfcmp	
Strawn	
Atoka	
Mrw Clistics	
Lwr Mrw	
TD	

8-5/8" 24# J-55 STC @ 2184 ft

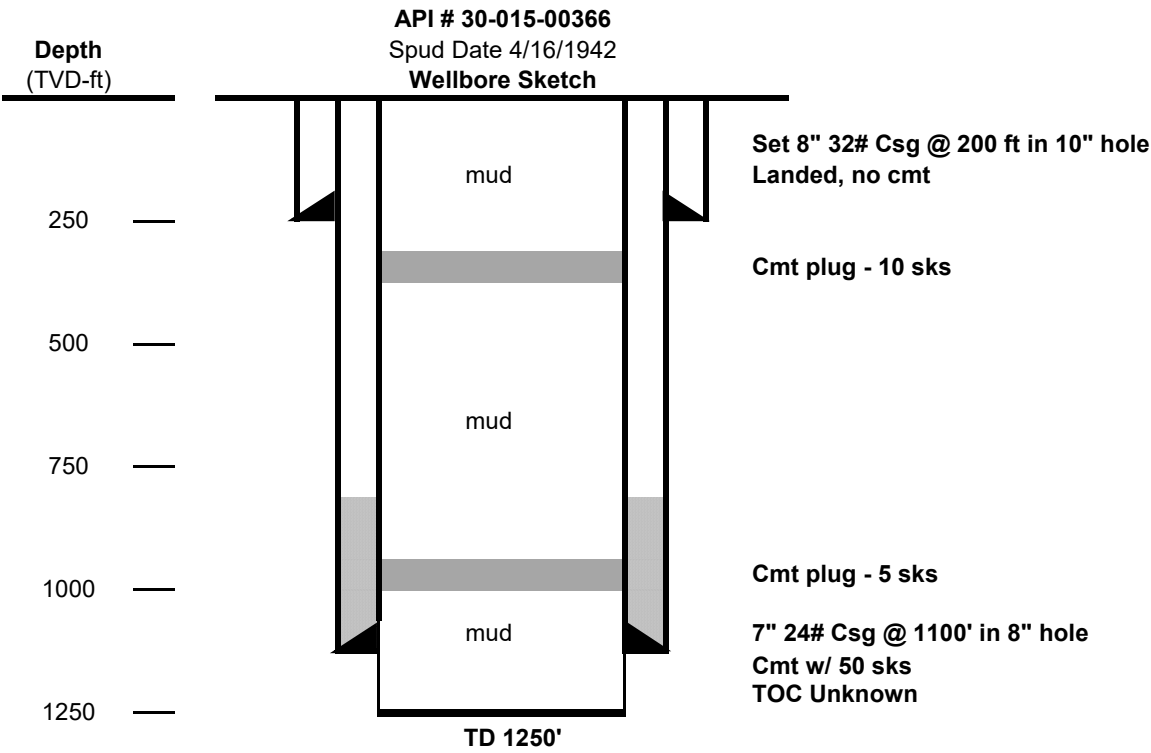
Cmt'd w/ 100 sks RFC w/ 10 pps Kolite +
 130 sks 35/65 Poz C w/ 6% gel + 10 pps
 Kolite + 510 sks 35/65 Poz C w/ 6% gel.
 Taile w/ 200 sks C w/ 2% CC. Circ 300 sks
 excess.

5-1/2" 15.5# J-55 LTC @ 3,600 ft. Stg Tool @ 2464 ft.

Cmt'd 1st stg w/ 165 sks 10 # silica lite
 w/ 2% slalt. Circ 77 sks excess. Cmt'd
 2nd stg w/ 190 sks 35/65/ poz C w/ 6%
 gel + 105 sks 10# silica lite w/ 2% gel
 Circ 34 sks excess to surface.

Newman State #1 - P&A

Location: **Section 16, T21S, R26E_Eddy County, New Mexico**
660 FSL & 1980 FWL



Well Name: STATE BT COM 1		Field: AVALON	
Location: 1830' FWL & 660 FNL; SEC 16-T21S-R26E		County: EDDY	State: NM
Elevation: 3298.5 KB; 3280' GL		Spud Date: 11/14/75	Compl Date: 1/18/76
API#: 30-015-21673	Prepared by: Ronnie Slack	Date: 2/25/13	Rev:

11005' PBD

VII. Proposed Operations – Cactus #11 Injection Well Conversion:

1. Daily Injection Rates:
 - a. Max – 600 BWIPD
 - b. Average – 400 BWIPD
2. This will be a CLOSED system.
3. Injection Pressures:
 - a. Max – 620 psi
 - b. Average - 300 psi (unknown)
4. Pages #13-19 show compatibility tests between the Cisco/Canyon and the Delaware as well as complete water analyses for both formations. Tascosa Energy Partners plans to inject produced water from the Cactus Lease into the Cactus #11 for reservoir pressure maintenance. In the area TEP also has a Cisco/Canyon producer (Western Reserve Fed #3, API: 30-015-30700), which will be used to maintain injection rates as a source of make-up water.
5. Cactus #11 injector will not be used for disposal purposes.

VIII. Geological Data –

1. Geologic Name of Injection Zone: Brushy Canyon Formation
2. Geologic Description: Injection will be into the Permian Brushy Canyon formation. The proposed injection interval from 3092-3130'. The Brushy Canyon is composed of fine grained arkosic to subarkosic sandstones with porosities of 12%-25%.
3. Fresh Water Sources: Capitan Reef aquifer in this area is found at depths 410'-2200'. Fresh water is found in the Capitan Reef near the Guadalupe Mountains where the reef recharges, total dissolved solids concentrations increase as you move west. Capitan Reef water in this area is brackish. No other fresh water sources overlie the injection interval.

IX. Proposed Stimulation Program –

1. Reperforate the proposed injection zone from 3092' – 3130' with 4 SPF.
2. Simulate the zone with ~5,000 gals of 15% NEFE HCL to ensure all perforations are open.
3. Frac if necessary with +/- 80,000 lb of proppant.

X. Log Data –

1. See pages #20-21 for the Cactus #11 log

XI. Fresh Water Sources –

1. Tascosa Energy Partners will not use fresh water sources for make-up water.



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Consultation

Alyssa McNear
Tascosa Energy
20-09-28 Page 4

09/11/2020

Re:20-08-58 Compatibility Study

Alyssa,

The waters submitted on 08/11/2020 from the Cactus and Western Reserve were performed at your request for 3 separate analysis, each at a specific mixture ratio to determine if the waters were compatible. We performed an analysis of the following mixtures: 25% Western to 75% Cactus, a 50/50 ratio, and a 75% Western to 25% Cactus. The results of each are on 20-09-28 pages 1-3.

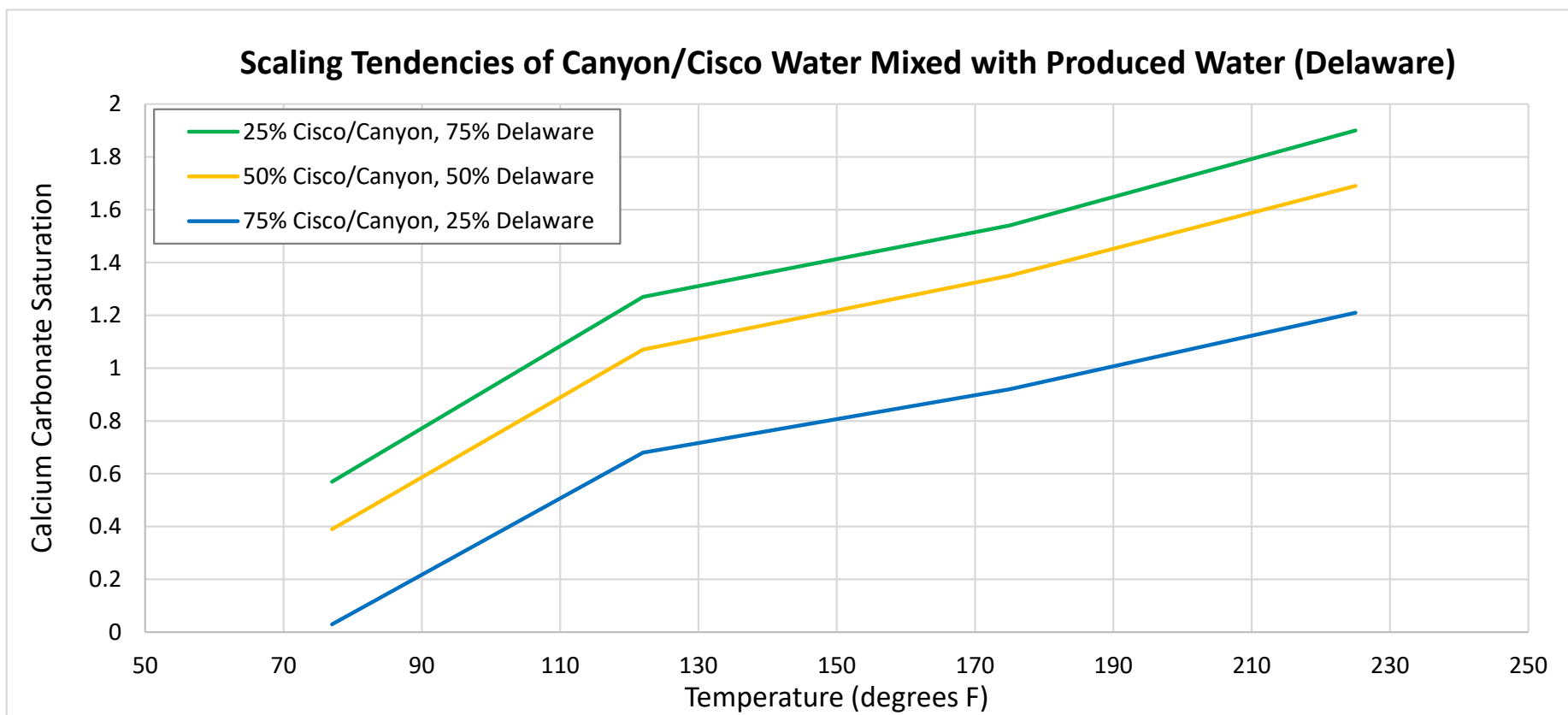
Due to the nature of the waters these do show to be mostly compatible to mix. The key areas of focus all are favorable conditions that should not yield any additional issues. With each standalone water they both had potential to cause corrosion due to lower pH and high TDS. While the Western does have more solubility for CaCO_3 at lower temperatures it does show potential as temperature increases. Mixing the 2 waters at any of the three ratios will increase the saturation of CaCO_3 and potentially create more scaling for the Western Reserve as the calcium increases. Neither Barium Sulfate nor Calcium Sulfate that we monitor show to be factors with the standalone or the varying mixtures.

Other standalone parameters such as bicarbonate and pH all blended evenly, though the HCO_3 did drop compared to the first analysis which can be contributed to the samples age. Total Iron and Strontium being present at the levels they are do need to be monitored for standalone scaling potentials.

Should you have any questions please don't hesitate to reach out.

Bryan Ogden

Bryan R. Ogden, B.S





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Complete Water Analysis

To: Richard Wright
Company: Tascosa Energy
Address: 901 W. Missouri Midland, TX 79701
Lab # 20-08-58 Page 1
Date Reported: 08/19/2020

Lease/Project: Western Reserve Fed #3
Location:
Sample Point:
Sample Date: 08/11/2020
Sample Received: 08/11/2020

Sample Analysis

<u>Parameters:</u>		<u>Cations mg/L</u>		<u>Anions mg/L</u>	
pH:	6.5	Barium:	.358	Sulfate:	804
Bicarbonate HCO ₃ (mg/l):	88	Calcium:	6000	Chloride	102267
Carbonate (mg/l):	0	Iron:	24.008		
Hydroxide (mg/l):	0	Magnesium:	2673	<u>Other mg/L</u>	
Temperature (°F):	75	Manganese:	.481	Conductivity, µmhos/cm @ 77°F.	186250
Pressure (PSI):	-	Potassium:	2739	Total Hardness as CaCO ₃ :	26000
Dissolved CO ₂ (mg/l):	58	Strontium:	226	Total Dissolved Solids	166621
Dissolved H ₂ S (mg/l):	ND	Sodium:	52049		
Ionic Strength:	3.1739				
Resistivity ohms/m @77°F:	.064				
Specific Gravity @60°F:	1.1255				

Scaling Tendencies

Corrosiveness Severe Corrosion likely

Calcium Sulfate None Likely

Barium Sulfate None likely

Carrier RI 8.2 –

Carrier RI

Scale

4.0-5.0 Heavy Scale
 5.0-6.0
 6.0-7.0
 7.0-7.5
 7.5-9.0 Scale less likely
 >9

Calcium Carbonate Stiff-Davis Model

Temp	Saturation	Comment
77° F	-.21	
122° F	.42	
175 °F	.69	
225° F	.87	



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Complete Water Analysis

To: Richard Wright
Company: Tascosa Energy
Address: 901 W. Missouri Midland, TX 79701
Lab # 20-08-58 Page 2
Date Reported: 08/19/2020

Lease/Project: Cactus Battery
Location:
Sample Point:
Sample Date: 08/11/2020
Sample Received: 08/11/2020

Sample Analysis

<u>Parameters:</u>		<u>Cations mg/L</u>		<u>Anions mg/L</u>	
pH:	7.0	Barium:	.547	Sulfate:	739
Bicarbonate HCO ₃ (mg/l):	73	Calcium:	16800	Chloride	120732
Carbonate (mg/l):	0	Iron:	33.471		
Hydroxide (mg/l):	0	Magnesium:	2552	<u>Other mg/L</u>	
Temperature (°F):	75	Manganese:	3.074	Conductivity, µmhos/cm @ 77°F.	225492
Pressure (PSI):	-	Potassium:	2727	Total Hardness as CaCO ₃ :	52500
Dissolved CO ₂ (mg/l):	15	Strontium:	505	Total Dissolved Solids	195435
Dissolved H ₂ S (mg/l):	ND	Sodium:	51812		
Ionic Strength:	3.9554				
Resistivity ohms/m @77°F:	.059				
Specific Gravity @60°F:	1.1375				

Scaling Tendencies

Corrosiveness Severe Corrosion likely

Calcium Sulfate None likely

Barium Sulfate None likely

Carrier RI 7.1 –

Carrier RI

Scale

4.0-5.0 Heavy Scale
 5.0-6.0
 6.0-7.0
 7.0-7.5
 7.5-9.0 Scale less likely
 >9

Calcium Carbonate Stiff-Davis Model

Temp	Saturation	Comment
77° F	.98	
122° F	1.71	
175 °F	2.09	
225° F	2.36	



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Complete Water Analysis

To: Alyssa McNear
Company: Tascosa Energy
Address: 901 W. Missouri Midland, TX 79701
Lab # 20-09-28 Page 1
Date Reported: 09/11/2020

Lease/Project: 25 % Western Reserve
Location: 75 % Cactus
Sample Point:
Sample Date: 08/11/2020
Sample Received: 08/11/2020

Sample Analysis

Parameters:

pH: **6.8**
 Bicarbonate HCO₃ (mg/l): **61**
 Carbonate (mg/l): **0**
 Hydroxide (mg/l): **0**
 Temperature (°F): **75**
 Pressure (PSI): **-**
 Dissolved CO₂ (mg/l): **16**
 Dissolved H₂S (mg/l): **ND**
 Ionic Strength: **3.7222**
 Resistivity ohms/m @77°F: **.060**
 Specific Gravity @60°F: **1.1355**

Cations mg/L

Barium: **.241**
 Calcium: **14000**
 Iron: **17.424**
 Magnesium: **2430**
 Manganese: **3.043**
 Potassium: **2716**
 Strontium: **431**
 Sodium: **51608**

Anions mg/L

Sulfate: **792**
 Chloride: **115051**

Other mg/L

Conductivity, µmhos/cm @ 77°F. **210667**
 Total Hardness as CaCO₃: **45000**
 Total Dissolved Solids **186658**

Scaling Tendencies

Corrosiveness Severe Corrosion likely

Calcium Sulfate None Likely

Barium Sulfate None likely

Carrier RI 7.6 –

Carrier RI

Scale

4.0-5.0 Heavy Scale
 5.0-6.0
 6.0-7.0
 7.0-7.5
 7.5-9.0 Scale less likely
 >9

Calcium Carbonate Stiff-Davis Model

Temp	Saturation	Comment
77° F	.57	
122° F	1.27	
175 °F	1.54	
225° F	1.90	



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Complete Water Analysis

To: Alyssa McNear
Company: Tascosa Energy
Address: 901 W. Missouri Midland, TX 79701
Lab # 20-09-28 Page 2
Date Reported: 09/11/2020

Lease/Project: 50 % Western Reserve
Location: 50 % Cactus
Sample Point:
Sample Date: 08/11/2020
Sample Received: 08/11/2020

Sample Analysis

<u>Parameters:</u>		<u>Cations mg/L</u>		<u>Anions mg/L</u>	
pH:	6.8	Barium:	.421	Sulfate:	774
Bicarbonate HCO ₃ (mg/l):	61	Calcium:	11400	Chloride	115051
Carbonate (mg/l):	0	Iron:	26.705		
Hydroxide (mg/l):	0	Magnesium:	2187	<u>Other mg/L</u>	
Temperature (°F):	75	Manganese:	2.504	Conductivity, µmhos/cm @ 77°F.	215567
Pressure (PSI):	-	Potassium:	2888	Total Hardness as CaCO ₃ :	37500
Dissolved CO ₂ (mg/l):	20	Strontium:	363	Total Dissolved Solids	187239
Dissolved H ₂ S (mg/l):	ND	Sodium:	54877		
Ionic Strength:	3.6477				
Resistivity ohms/m @77°F:	.060				
Specific Gravity @60°F:	1.1345				

Scaling Tendencies

Corrosiveness Severe Corrosion likely

Calcium Sulfate None Likely

Barium Sulfate None likely

Carrier RI 7.8–

Carrier RI

Scale

4.0-5.0 Heavy Scale
 5.0-6.0
 6.0-7.0
 7.0-7.5
 7.5-9.0 Scale less likely
 >9

Calcium Carbonate Stiff-Davis Model

Temp	Saturation	Comment
77° F	.39	
122° F	1.07	
175 °F	1.35	
225° F	1.69	



MARTIN WATER LABS

Water Analysts and Consultants since 1953

Complete Water Analysis

To: Alyssa McNear
Company: Tascosa Energy
Address: 901 W. Missouri Midland, TX 79701
Lab # 20-09-28 Page 3
Date Reported: 09/11/2020

Lease/Project: 75 % Western Reserve
Location: 25 % Cactus
Sample Point:
Sample Date: 08/11/2020
Sample Received: 08/11/2020

Sample Analysis

Parameters:

pH: **6.7**
 Bicarbonate HCO₃ (mg/l): **49**
 Carbonate (mg/l): **0**
 Hydroxide (mg/l): **0**
 Temperature (°F): **75**
 Pressure (PSI): **-**
 Dissolved CO₂ (mg/l): **20**
 Dissolved H₂S (mg/l): **ND**
 Ionic Strength: **3.4643**
 Resistivity ohms/m @77°F: **.061**
 Specific Gravity @60°F: **1.1295**

Cations mg/L

Barium: **.277**
 Calcium: **9000**
 Iron: **31.310**
 Magnesium: **1094**
 Manganese: **1.010**
 Potassium: **3038**
 Strontium: **290**
 Sodium: **57719**

Anions mg/L

Sulfate: **792**
 Chloride: **112210**

Other mg/L

Conductivity, µmhos/cm @ 77°F. **205500**
 Total Hardness as CaCO₃: **27000**
 Total Dissolved Solids **183901**

Scaling Tendencies

Corrosiveness Severe Corrosion likely

Calcium Sulfate None Likely

Barium Sulfate None likely

Carrier RI 8.3-

Carrier RI

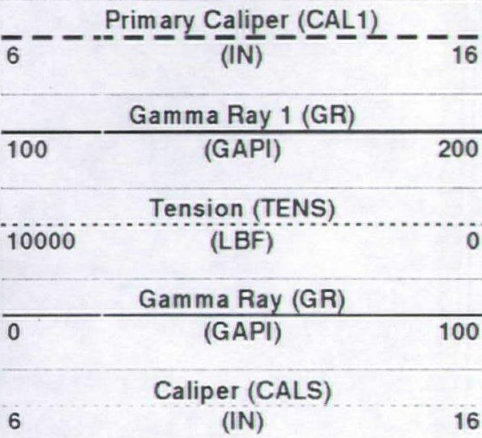
Scale

4.0-5.0 Heavy Scale
 5.0-6.0
 6.0-7.0
 7.0-7.5
 7.5-9.0 Scale less likely
 >9

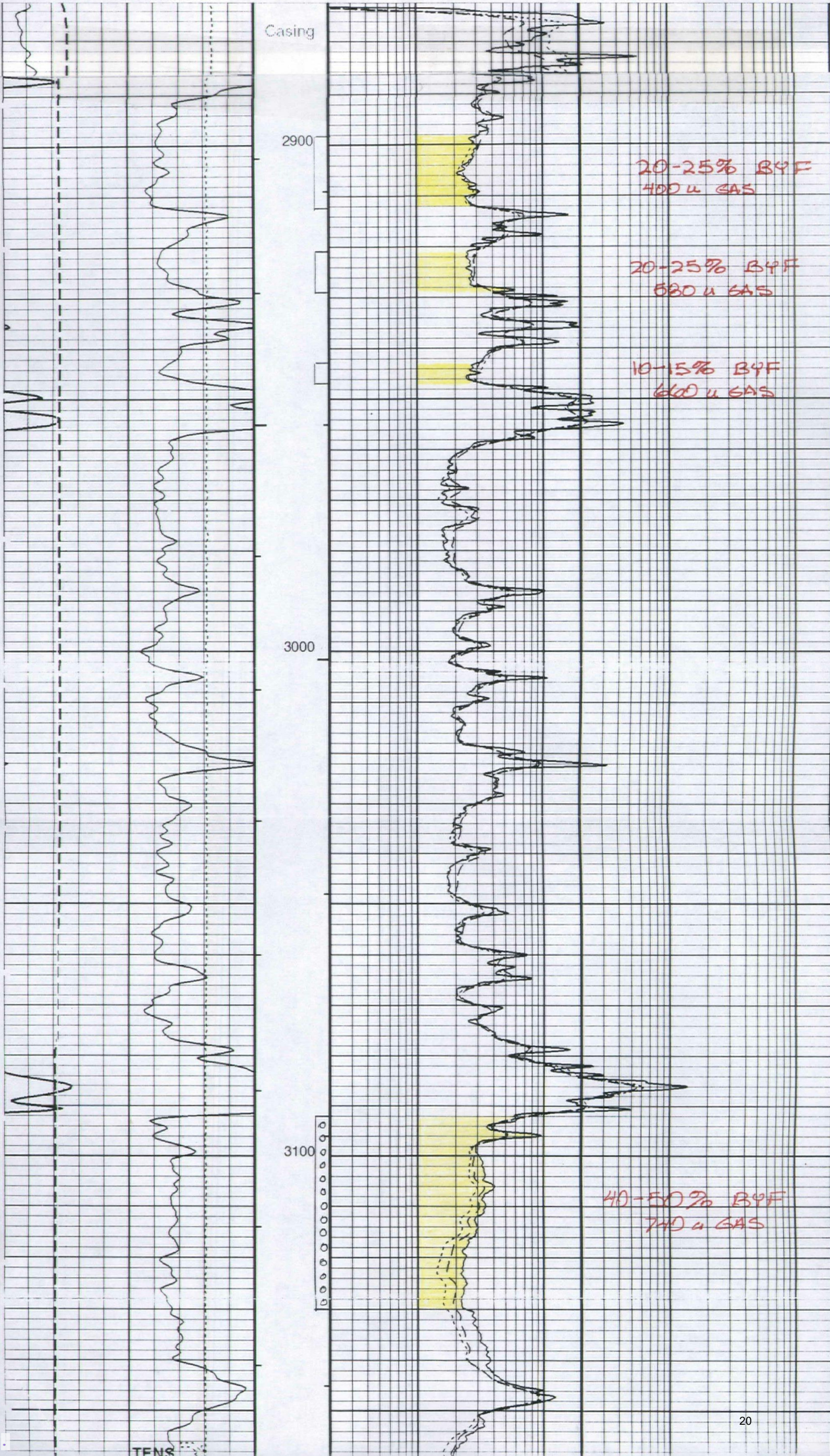
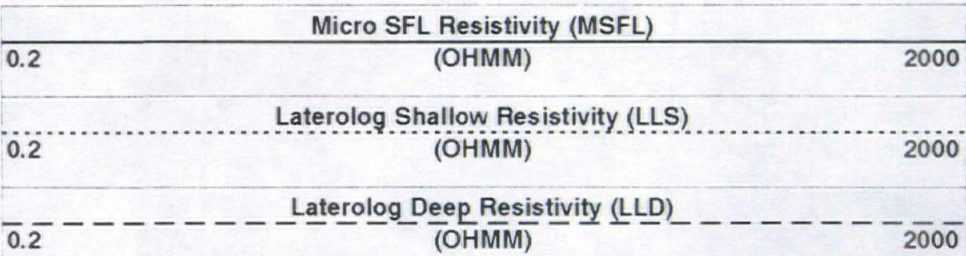
Calcium Carbonate Stiff-Davis Model

Temp	Saturation	Comment
77° F	.03	
122° F	.68	
175 °F	.92	
225° F	1.21	

X. Resistivity & Porosity Logs



Main Log



From T1 to GR1

0.3

(----

-0.1

Gamma Ray 1 (GR)

PhotoElectric Factor (PEF)

100 (GAPI) 200

0 (----) 10

Gamma Ray (GR)

Neutron Porosity (NPHI)

0 (GAPI) 100

0.3 (V/V) -0.1

Caliper (CALI)

Density Porosity (DPHI)

6 (IN) 16

0.3 (V/V) -0.1

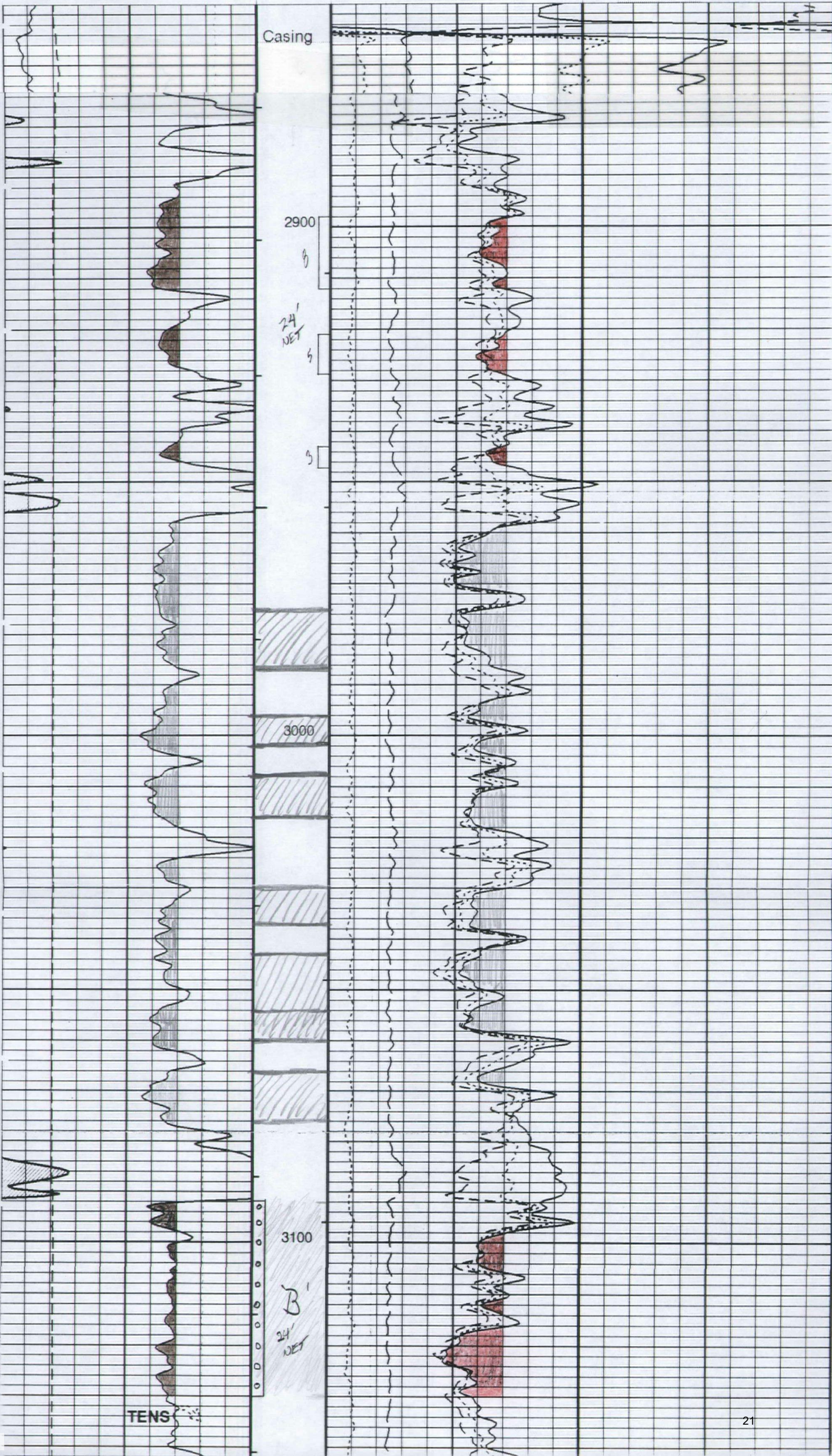
Tension (TENS)

Bulk Density Correction (DRHO)

10000 (LBF) 0

-0.05 (G/C3) 0.45

Main Log



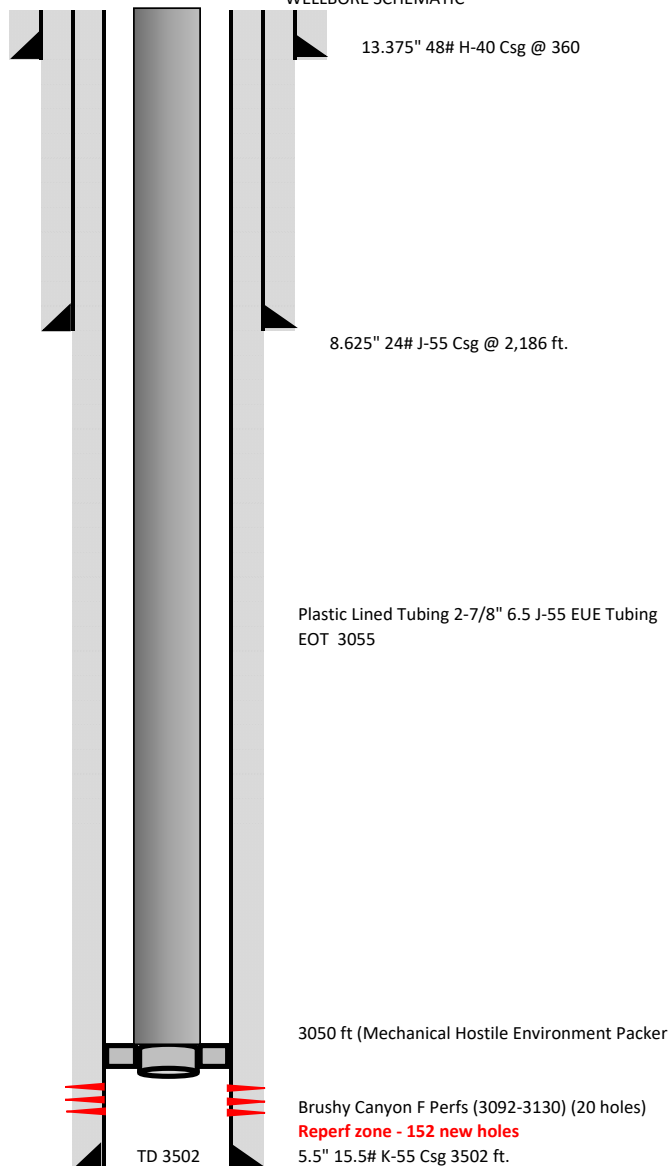
Cactus State # 11 (28497)

Location: **Section 16, T21S, R26E_Eddy County, New Mexico** 2310 FSL & 990 FWL



PROPOSED WELLBORE DIAGRAM

OPERATOR: TASCOSA ENERGY PARTNERS, LLC OGRID # 329748
WELL NAME & NUMBER: CACTUS STATE # 11 API # 30 015 28497
WELL LOCATION: 2310 FSL & 990 FWL L 16 21 SOUTH 26 EAST
 FOOTAGE UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC**WELL CONSTRUCTION DATA****SURFACE CASING**

HOLE SIZE 17.5 CASING SIZE 13.375 48# H-40

CEMENTED WITH 447 SKS OR 590 CU FT

TOP OF CEMENT = SURFACE

NOTE: Primary job (375 sks) Circulated then fell back. Top job w/ 72 sks C 2% CaCl₂.
Yield of surface cement = 1.32 cu ft / sk.

INTERMEDIATE CASING

HOLE SIZE 12.25 CASING SIZE 8.625 24# J-55

CEMENTED WITH Total 1,490 sks SKS OR 2336 CU FT

TOP OF CEMENT = Surface_Circulated w/ 1" (580 sks)

NOTE: Original TOC @ 1280 ft after primary job. 1" w/ 580 sks C w/ 3% CaCl₂ (Circ)
Yield of lead = 200 sks @ 1.66 cu ft/sk
Yield of 2nd slurry = 510 sks @ 1.91 Cu ft/ sk
Yield of tail = 200 sks @ 1.32 cu ft/ sk
Yield of top out (1280 ft to surface) 1" = 580 sks C @ 1.32 cu ft/ sk

PRODUCTION CASING

HOLE SIZE 7.875 CASING SIZE 5.5" 15.5# K-55

CEMENTED WITH 490 SKS OR 907 CU FT

TOP OF CEMENT = Surface_Circ 51 sks

NOTE: Cement Stage tool @ 2,401 ft. 1st stage (190 sks Silica Lite 1.81 yield.
Circ 85 sks on 1st stage to pit. 2nd stage cmt'd w/ 200 sks 35/65/6 "C" (1.91 yield)
plus 100 sks Silica Lite tail w/ 2% NaCl (1.81 yield). Circ 51 sks to pit

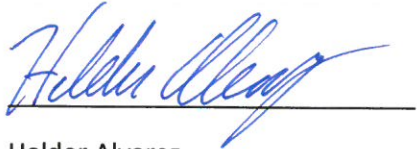
INJECTION INTERVAL

3092 FEET TO 3130

PERFORATED OR OPEN HOLE = PERFORATED

XII. Affirmative Statement

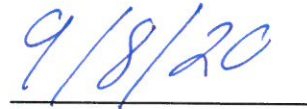
Tascosa Energy Partners has conducted a hydrogeological investigation to determine a connection between the injection interval and any underground drinking water sources. Upon review of all available geologic and engineering data, it has been determined that there is no evidence of open faults or any other hydrologic connection between the disposal zone and any sources of drinking water.



Helder Alvarez

Geologist

Tascosa Energy Partners



Date

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.

Article Addressed to:

Wilson Partners
 Attn: Land Department
 P.O. Box 5902
 Midland, TX 79704



9590 9402 2823 7069 6861 33

Article Number (Transfer from service label)

7018 0360 0000 5279 1991

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

☐ Agent
☐ Addressee

Date of Delivery

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☐ Yes
☒ No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Mail Restricted Delivery | |

Domestic Return Receipt

XIII. Proof of Notice

Tascosa Energy Partners, LLC
 901 W. Missouri Ave
 Midland, TX 79701
 (432) 695-6970

Dear Gentlemen:


Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.

Attached herein, is the C108 that will be submitted to the OCD for administrative approval. You may file an objection with the OCD within 15 days of the date of this letter.

Your early attention and response to this proposal will be greatly appreciated. Should you have any questions, please contact me at (469) 371-5311

Sincerely,

Kelly Hardy

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Complete items 1, 2, and 3.</p> <p>2. Print your name and address on the reverse so that we can return the card to you.</p> <p>3. Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>Article Addressed to:</p> <p>Tom E. Johnson Exploration, LLC. PO Box 1688 Midland, TX 79702-1688</p>  <p>9590 9402 2823 7069 6861 40</p> <p>Article Number (Transfer from service label)</p> <p>7018 0360 0000 5279 1984</p>		<p>A. Signature X <i>Tom E. Johnson</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery Tom E. Johnson 9-29-20</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail®</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p>		<p><input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	

S Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

Tascosa Energy Partners, LLC
901 W. Missouri Ave
Midland, TX 79701
(432) 695-6970

Dear Mr. Johnson:

Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.

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Sincerely,

Kelly Hardy

Kelly Hardy

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<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery</p> <p><input checked="" type="checkbox"/> Certified Mail®</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery</p> <p><input type="checkbox"/> Collect on Delivery</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery</p> <p><input type="checkbox"/> Insured Mail</p> <p><input type="checkbox"/> Registered Mail</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>		<p><input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Registered Mail™</p> <p><input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	

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

Tascosa Energy Partners, LLC
 901 W. Missouri Ave
 Midland, TX 79701
 (432) 695-6970

Dear Gentleman:

Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.


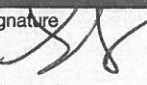
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Sincerely,

Kelly Hardy

Kelly Hardy

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY															
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to: New Mexico State Land Office Oil, Gas & Minerals Division Attn: Kenda Montoya 310 Old Santa Fe Trail Santa Fe, NM 87501</p>  <p>9590 9402 2823 7069 6861 26</p>		<p>A. Signature X </p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>															
<p>2. Article Number (Transfer from service label) 7018 0360 0000 5279 1960</p>		<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery</td> <td></td> </tr> </table>		<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail Restricted Delivery	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise																
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Insured Mail Restricted Delivery																	

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

Tascosa Energy Partners, LLC
901 W. Missouri Ave
Midland, TX 79701
(432) 695-6970

Re: Cactus State 11
Section 16-T21S-R26E
Eddy County, NM

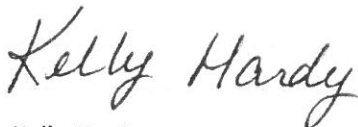
Dear Ms. Montoya:

Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.

Attached herein, is the C108 that will be submitted to the OCD for administrative approval. You may file an objection with the OCD within 15 days of the date of this letter.

Your early attention and response to this proposal will be greatly appreciated. Should you have any questions, please contact me at (469) 371-5311

Sincerely,



Kelly Hardy

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
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<p>1. Article Addressed to:</p> <p>Oxy USA WTP LP Attn: Land Department P.O. Box 841803 Dallas, TX 75284</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p> <p>SEP 28 2020</p>
<p>2. Article Number (Transfer from service label)</p> <p>7018 0360 0000 5279 1977</p>		<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>	

9590 9402 2823 7069 6861 57

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

Tascosa Energy Partners, LLC
901 W. Missouri Ave
Midland, TX 79701
(432) 695-6970

Dear Gentlemen:

Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.

Attached herein, is the C108 that will be submitted to the OCD for administrative approval. You may file an objection with the OCD within 15 days of the date of this letter.

Your early attention and response to this proposal will be greatly appreciated. Should you have any questions, please contact me at (469) 371-5311

Sincerely,

Kelly Hardy

Kelly Hardy

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.

Article Addressed to:

New Mexico State Land Office
Oil, Gas & Minerals Division
Attn: Faith Crosby
10 Old Santa Fe Trail
Santa Fe, NM 87501-1148



9590 9402 2823 7069 6861 19

Article Number (Transfer from service label)

7017 3040 0000 1267 0978

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

Tascosa Energy Partners, LLC
901 W. Missouri Ave
Midland, TX 79701
(432) 695-6970

Domestic Return Receipt

Re: Cactus State 11
Section 16-T21S-R26E
Eddy County, NM

Dear Mrs. Crosby:

Tascosa Energy Partners, LLC ("TEP") is proposing an injection permit for Cactus State 11, Section 16, T-21-S, R-26-E, Eddy County, New Mexico.

Attached herein, is the C108 that will be submitted to the OCD for administrative approval. You may file an objection with the OCD within 15 days of the date of this letter.

Your early attention and response to this proposal will be greatly appreciated. Should you have any questions, please contact me at (469) 371-5311

Sincerely,

Kelly Hardy

Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004416282

This is not an invoice

HINKLE SHANOR, LLP
POBOX 2068

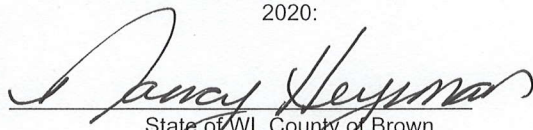
SANTA FE, NM 87504

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

10/13/2020


Legal Clerk

Subscribed and sworn before me this October 13, 2020:


State of WI, County of Brown
NOTARY PUBLIC
5.15.23
My commission expires

Tascosa Energy Partners, LLC, 901 W. Missouri, Midland, TX 79701, has filed a Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to convert the Cactus #11 well from a producing oil well to an injection well for purposes of pressure maintenance. The well is located 2310' FSL and 990' FWL (Unit L) in Section 16, Township 21 South, Range 26 East in Eddy County. Tascosa proposes to inject produced water through a closed system into the Brushy Canyon formation at a depth of 3092'- 3130' at an average injection rate of 400 BWPD, with a maximum injection rate of 600 BWPD. The average anticipated injection pressure is 300 psi, with a maximum pressure of 620 psi. The well is located approximately 7 miles Northwest of Carlsbad, New Mexico.

All interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained by contacting Kelly Hardy at 432-695-6970 #0004416282, Current Argus, Oct. 13, 2020

Ad # 0004416282
PO #: Application for Authorization to Inject
of Affidavits 1

This is not an invoice

NANCY HEYRMAN
Notary Public
State of Wisconsin