

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery XXX Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes XXX No
- II. OPERATOR: Caza Operating, LLC
ADDRESS: 200 N. Loraine, Suite 1550, Midland, Texas 79701
CONTACT PARTY: Richard Wright PHONE: 432-682-7424
- 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 XX No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- 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.).
- Oil Conservation Division
Case No. 15235
Exhibit No. 1
- *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: Richard R. Albro TITLE: Vice President Land
SIGNATURE: [Signature] DATE: 10/6/2014
E-MAIL ADDRESS: ralbro@cazapetro.com
- * 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: _____

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.

CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

INDEX REFERENCE PAGE NO.: 1

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): III.

EXHIBIT: III. A. - WELL LOCATION PLAT

EXHIBIT: III. A. - INJECTION WELL DATA SHEET (side 1)

EXHIBIT: III. A. - WELLBORE DIAGRAM

EXHIBIT: III. A. & III. B. - INJECTION WELL DATA SHEET (side 2)

EXHIBIT: III. A. - CEMENT WORKSHEET

EXHIBIT: III. A. - PROPOSED CASING

DISTRICT I
1635 N. French Dr., Hobbs, NM 88240
Phone (505) 343-6161 Fax (505) 343-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1383 Fax (505) 746-0120

DISTRICT III
1000 Rio Brazos Road, Artesia, NM 88210
Phone (505) 374-6178 Fax (505) 374-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name FOREHAND 27 STATE	Well Number 4
GRID No	Operator Name CAZA OPERATING, LLC	Elevation 3147'

Surface Location									
UT. or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	27	23-S	27-E		1980	NORTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface									
UT. or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=464819.6 N X=550118.1 E</p> <p>LAT.=32.277802° N LONG.=104.171168° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 13, 2014</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p>
	<p>Certificate Number: Cary G. Eldson 12641 Ronald J. Eldson 3239</p>
	<p>ACK _____</p>

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Caza Operating, LLCWELL NAME & NUMBER: Forehand Ranch 27 St # 4

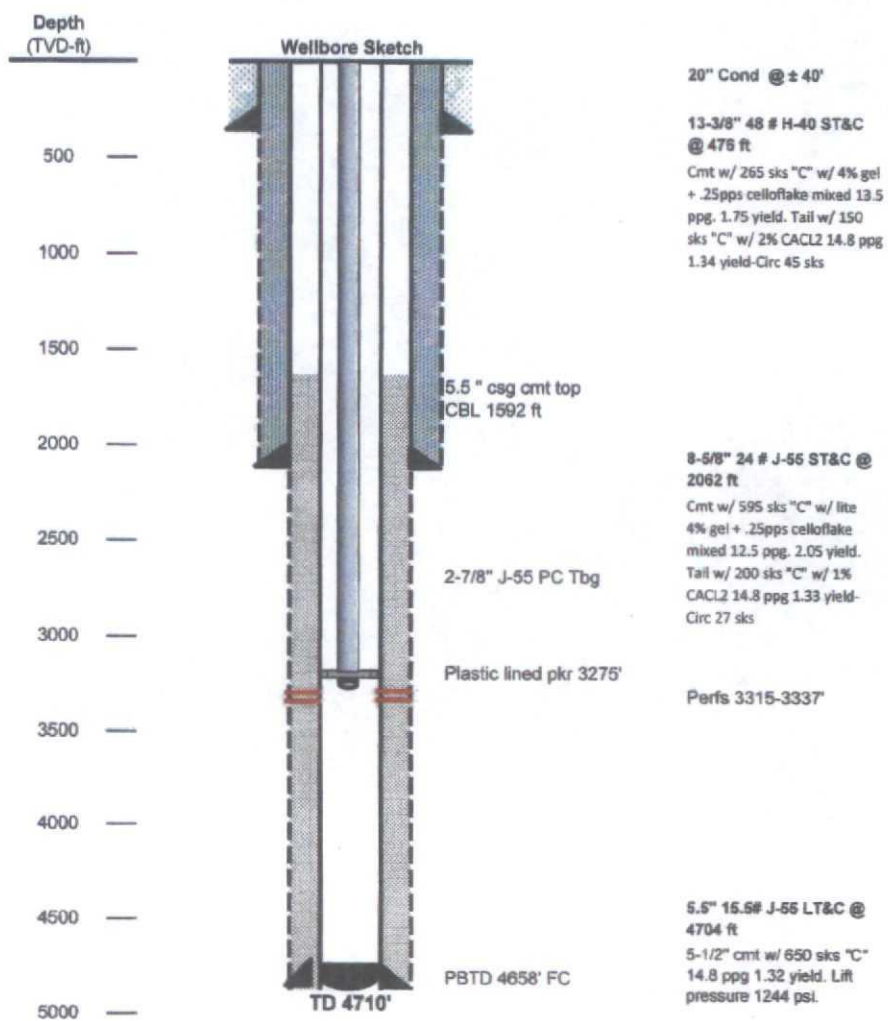
WELL LOCATION: <u>1980 FNL & 660 FEL</u>	<u>H</u>	<u>27</u>	<u>23 S</u>	<u>27 E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8" 48 # H-40Cemented with: 415 "C" sx. or 665 ft³Top of Cement: Surface Method Determined: VisualIntermediate CasingHole Size: 12-1/4" Casing Size: 8-5/8" 24 lb J-55Cemented with: 795 "C" sx. or 1486 ft³Top of Cement: Surface Method Determined: VisualProduction CasingHole Size: 7-7/8" Casing Size: 5-1/2Cemented with: 650 sx. or 858 ft³Top of Cement: 1592 ft Method Determined: CBLTotal Depth: 4710Injection Interval3315 feet to 3337 feet

(Perforated or Open Hole; indicate which)

Forehand 27 State # 4

Location: **Section 22_T23S_R27E_Eddy County, New Mexico**
1980 FNL & 660 FEL API # 30-015-42309



Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# J-55 Lining Material: Plastic

Type of Packer: Arrow Set 1X plastic lined

Packer Setting Depth: 3275 ft

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

Additional Data

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

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

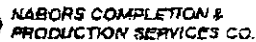
2. Name of the Injection Formation: Delaware

3. Name of Field or Pool (if applicable): Cass Draw, Delaware 10410

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. Not Perforated in different interval

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Underlying Potential in Brushy Canyon and Bone Springs

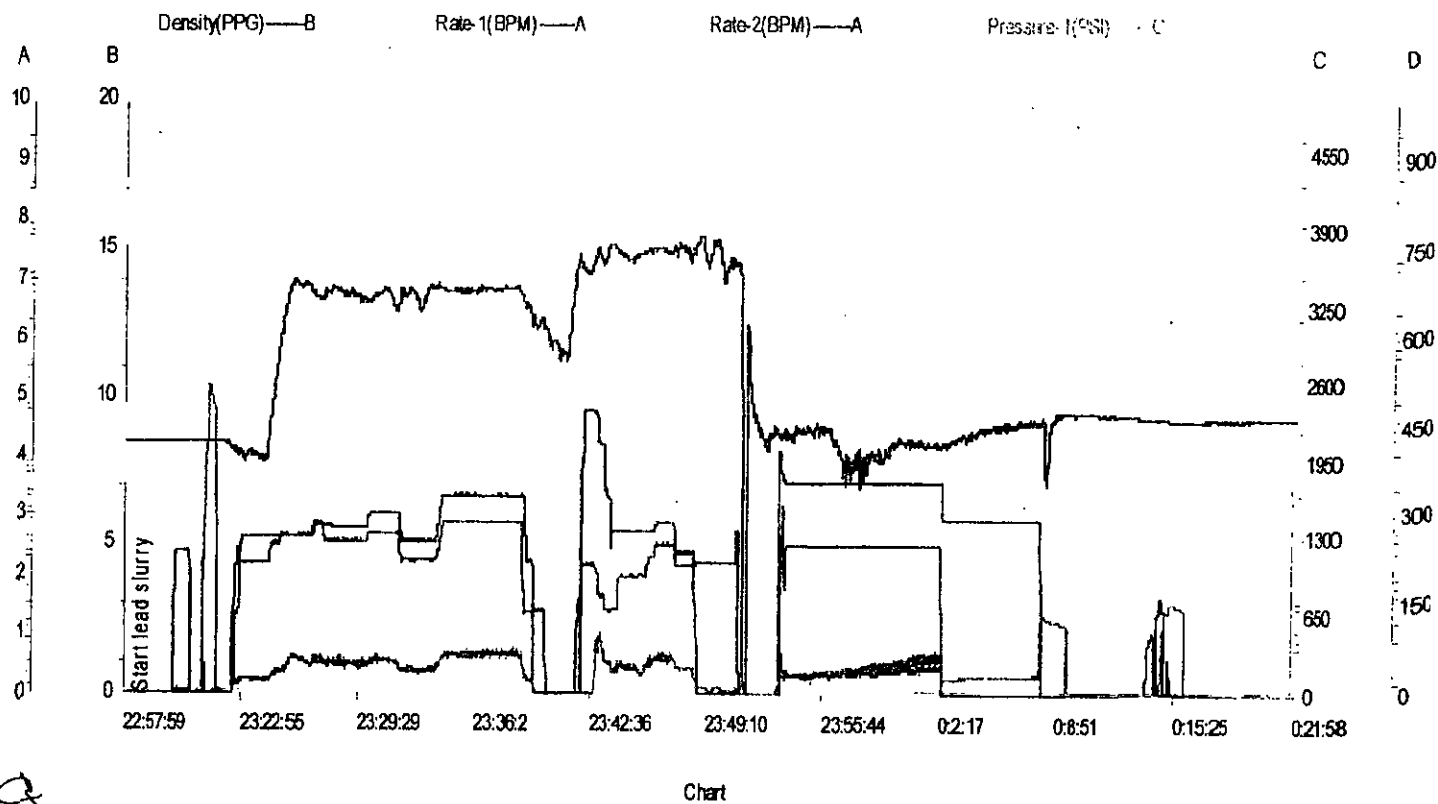
EXHIBIT III. A.



CEMENT TREATMENT REPORT

Customer: CAZA OIL & GAS			Date: 8/12/2014		Invoice #:		Serv. Supv: CAMERON CRAIG				
Lease: FOREHAND			Well Name: FOREHAND 27 STATE 4 DELAWARE			County: EDDY					
District: MIDLAND			Rig: SOVERIEGN		Type of Job: 13 3/8 SURFACE.						
Plugs			Casing Hardware			Physical Slurry Properties					
						Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPs	Slurry Bbls	Mix Water Bbls
Materials Furnished by Nabors											
Spacer:											
LEAD		CLASS C=4%Benionita+2%CaCl2+ 25pppSuperFlake				265	13.5	1.74	9.1	82	58
TAIL		CLASS C=2%CaCl2				150	14.6	1.34	6.33	36	23
HOLE			TUBING - CASING - DRILL PIPE						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE		SHOE	FLOAT	STAGE
17 1/2		476	13.36	48	CSG	479	J-55		43	436	1
LAST CASING			PKR / CMT RET / LINER PKR			PERF DEPTH		TOP CONN		WELL FLUID	
SIZE	WT	DEPTH	BRAND / TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT
								13 3/8	8RD	9	WAT/MUD
DISPL VOLUME		DISPL FLUID		CAL PSI		MAX TUBING PRES		MAX CSG PRESSURE		MIX WATER	
VOLUME	UOM	TYPE	WGT	BMP PLUG		RATED		WORKING	RATED	WORKING	
68	BBL	H2O	8.34	NA					1730	1384	89
Time	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard Time Arrived Loc		1700 2000	Time Left Loc Time Arrived Yarc			
2000	0	0	0	NA	Arrive, Test H2O, Chiorces 500, PH 7, Sulfates 1C						
2010	0	0	0	NA	Hazard Assessment						
2020	0	0	0	NA	Spot Equipment, Rig Up						
0000	0	0	0	NA	Safety Meeting						
0010	0	0	0	NA	Rig up Rig Floor						
0021	0		0	H2O	Test Lines						
0023			10	H2O	Spacer						
0026			82	CM-	Lead @ 13.5ppg weighed @ 13.5ppg						
0040			36	CM-	Tail @ 14.6ppg weighed @ 14.6ppg						
0051	0	0	0	NA	Shut Down, Release Plug						
0054			58	H2O	Displacement						
0104			10	H2O	Slow rate						
0109	0		88	H2O	Land Plug						
0114	0	0	0	NA	Check Float						
0125	0	0	0	NA	Safety Meeting						
0135	0	0	0	NA	Rig down						
0200	0	0	0	NA	Depart						
Cement Returned 14 bbls=45 sacks											
Bumped Plug											
NA	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface							
NA	140	NA	0	14 bbls	Service Supervisor						

Date: 6-12-14 Well Name: FOREHAND STATE 27 #4 DELAWARE Location: EDDY Country: USA Operator: ERIC BROWN Supervisor: CAMERON CRAIG Type of Job: SURF. Contact Address: Comment:

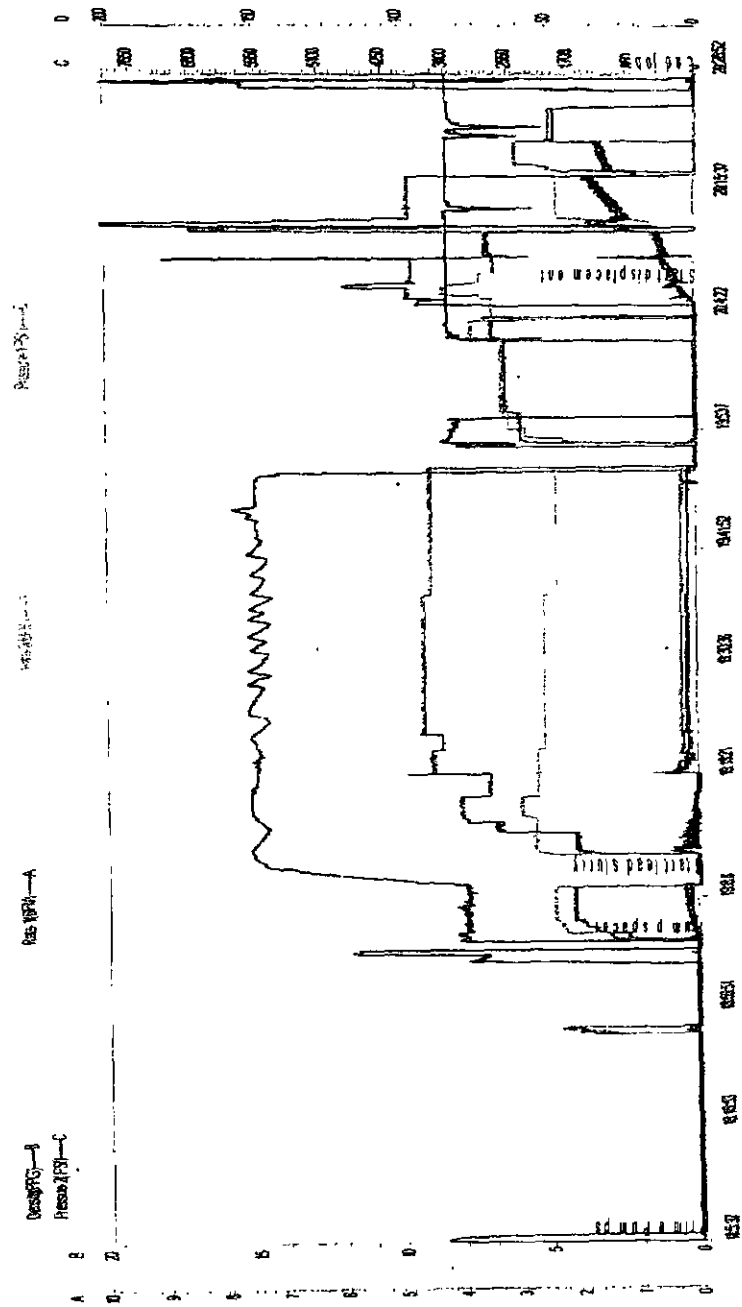


CEMENT TREATMENT REPORT

Customer: CAZA		Date: 6/23/2014		Invoice #: #REF!		Serv. Supv: CARLOS A PALOMO	
Lease: FOREHAND 27		Well Name: FOREHAND 27 STATE COM # DELAWARE				County: EDDY	
District: MIDLAND		Rig: SOVEREIGN		Type of Job: 5 1/2 LONG STRING			
Plugs: 5 1/2		Casing Hardware		Physical Slurry Properties			
		Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Slurry Bbls	Mix Water Bbls
Materials Furnished by Superior							
Spacer:							
LEAD:							
TAIL:	C + 25 PPS SUPER FLAKE						
		650	14.8	1.32	6.28	152.8088	97.190476
HOLE		TUBING - CASING - DRILL PIPE				COLLAR DEPTHS	
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE
7 7/8	0	4719	5.5	15.5	CSG	4707.38	J-55
LAST CASING		PKR / CMT RET / LINER PKR		PERF DEPTH		TOP CONN	
SIZE	WT	DEPTH	BRAND / TYPE	DEPTH	TOP	BTM	SIZE
							5 1/2
DISPL VOLUME		DISPL FLUID		CAL PSI		MAX TUBING PRES	
111	BBLS	WATER	8.43	1563			4810
Time		Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard	Time Left Loc
						15:30	22:30
						18:15	0:00
ALL TIMES CENTRAL							
PRE CONVOY MEETING							
ON LOCATION							
TEST WATER PH-7, CHL<1500, S< 200							
PUMP TEST							
HAZARD ASSESMENT							
LOAD LINES							
PRESSURE TEST							
SPACER AHEAD							
SLURRY BATCH UP SLURRY							
SLURRY TAIL SLURRY @ 14.8#/GAL VERIFIED WITH MUD SCALES							
SHUTDOWN/DROP PLUG							
DISPLACEMENT							
SLOW RATE							
BUMP PLUG							
FLOAT HELD 1/2 BBL RETURNED							
JOB COMPLETE NCPS RELEASED							
THANK YOU FROM CARLOS AND CREW							
NO CEMENT CIRCULATED TO SURFACE							
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface			
2010	1380	YES	0	0 Bbls			

Service Supervisor

David Z. H. WILLIAMS FORSHAW ZI STATE COMMISSIONER Tustin County Quantitative Analysis Superior CARLOS ARMANDO Tpe d JMS 12/15 Contact Address Contact 2/10/2015



Well name:

Forehand 27 State # 4

Operator: **Caza Operating, LLC**
String type: **Surface Casing**

Design parameters:

Collapse

Mud weight:

8.50 ppg

Minimum design factors:

Collapse

DF

1.125

Environment:

H2S considered?

No

Surface temperature:

75.00 °F

Design is based on evacuated pipe.

Bottom hole temperature:

78 °F

Temperature gradient:

0.65 °F/100ft

Minimum section length:

50 ft

Minimum Drift:

12.250 in

Cement top:

Surface

Burst

Max anticipated surface pressure:

238.70 psi

Burst

DF

1.10

Internal gradient:

0.12 psi/ft

Tension

Non-directional string.

Calculated BHP

292.70 psi

8 Rd STC: 1.80 (J)

8 Rd LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.60 (B)

Re subsequent strings:

Next setting depth: 2,050 ft

Next mud weight: 10.000 ppg

Next setting BHP: 1,065 psi

No backup mud specified.

Tension is based on buoyed weight.

Neutral pt: 394.02 ft

Fracture mud wt: 11.500 ppg

Fracture depth: 500 ft

Injection pressure: 299 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)
1	450	13.375	48.00	H-40	ST&C	450	450	12.59

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)
1	198	740	3.724	293	1730	5.91	18.9	322

Date: February 26, 2014
Midland, Texas

R. Wright

Remarks:

Collapse is based on a vertical depth of 450 ft, a mud weight of 8.5 ppg. The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

Forehand 27 State # 4

Operator: **Caza Operating, LLC**

String type: **Intermediate Casing**

Design parameters:

Collapse

Mud weight: 10.00 ppg

Minimum design factors:

Collapse:

DF 1.125

Environment:

H2S considered? No
Surface temperature: 75.00 °F

Design is based on evacuated pipe.

BHT 88 °F
Temp Gradient 0.65 °F/100ft
Min Sec Length 450 ft

Burst:

DF 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 978.68 psi

Internal gradient: 0.12 psi/ft
Calculated BHP 1,224.88 psi

Tension:

8 Rd STC: 1.80

8 Rd LTC: 1.80

Buttress: 1.80

Premium: 1.50

Body yield: 1.60

Non-directional string.

(J)

(J)

(J)

(J)

(B)

Re subsequent strings:

Next setting depth: 4,000 ft

Next mud weight: 8.500 ppg

Next setting BHP: 1,766 psi

Tension is based on buoyed weight

Neutral pt: 1,742.30 ft

Fracture mud wt: 11.500 ppg

Fracture depth: 2,050 ft

Injection pressure 1,225 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	
1	2050	8.625	24.00	J-55	ST&C	2050	2050	7.972	
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1065	1370	1.286	1225	2950	2.41	41.8	244	5.84 J

Date: February 26, 2014
Midland, Texas

R. Wright

Remarks:

Collapse is based on a vertical depth of 2050 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

Forehand 27 State # 4

Operator: **Caza Operating, LLC**

String type: **Production Csg: Frac**

Design parameters:

Collapse

Mud weight: 12.40

Minimum design factors:

Collapse:

ppg DF 1.200

Environment:

H2S considered?

No

Surface temperature:

75.00 °F

Design is based on evacuated pipe.

Bottom hole temperature:

110 °F

Temperature gradient:

0.75 °F/100ft

Minimum section length:

1.000 ft

Minimum Drift:

4.750 in

Cement top:

800 ft

Burst:

DF 1.20

Burst

Max anticipated surface

pressure:

3,027.53 psi

Internal gradient:

0.00 psi/ft

Calculated BHP

3,027.53 psi

Tension:

8 Rd STC: 1.80

8 Rd LTC: 1.80

Butress: 1.60

Premium: 1.50

Body yield: 1.60

Non-directional string.

(J)

(J)

(J)

(J)

(B)

No backup mud specified.

Tension is based on buoyed weight.

Neutral pt: 3,818.29 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)
1	4700	5.5	15.50	J-55	LT&C	4700	4700	4.825

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	3028	4040	1.334	2930	4810	1.64	59.2	217	3.67 J

Date:

July 24, 2014

Richard L. Wright

Midland, Texas

Remarks:

Collapse is based on a vertical depth of 4700 ft, a mud weight of 12.4 ppg. The casing is considered to be evacuated for collapse purposes.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

INDEX REFERENCE PAGE NO.: 2

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): V.

EXHIBIT: V. A. - LEASE MAP

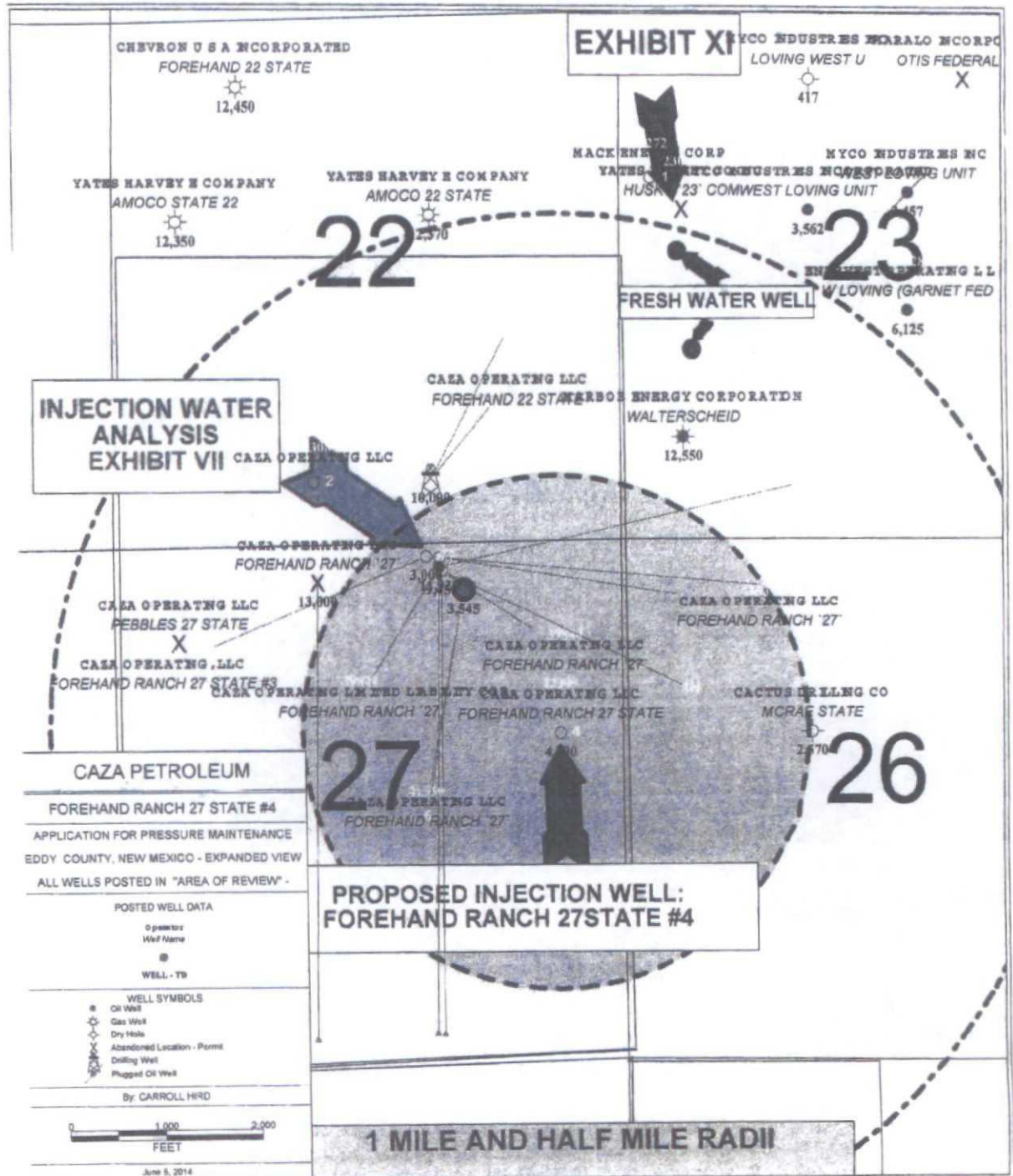
EXHIBIT: V. B. - GEOLOGICAL MAPS

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____





CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

INDEX REFERENCE PAGE NO.: 3

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): VI.

EXHIBIT: VI. - WELL DATA WITHIN AREA OF REVIEW

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____

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INFO. CATEGORY	EXHIBIT VI This form applies to paragraph VI		APPLICATION FOR CONVERSION TO INJECTION WELL; CAZA FOREHAND RANCH 27 STATE #4; SEC 27, T23S-R27E; EDDY COUNTY, NEW MEXICO	
Date:	8/13/2014		ALL WELLS WITHIN .5 MILE RADIUS OF PROPOSED SWD WELL ("AREA OF REVIEW" AS DEFINED BY NEW MEXICO OIL CONSERVATION DIVISION) EXHIBITS ARE REFERENCED TO PARAGRAPHS IN DCD FORM C-108	
	CAZA FOREHAND RANCH 27 STATE #4 - PROPOSED SALT WATER DISPOSAL	CAZA FOREHAND RANCH 27 STATE COM #1H	CAZA FOREHAND RANCH 27 State # 5	
API	30-015-423090000	30015398440000	30-015-415300000	
TYPE WELL: (para. I)	Salt water Injection	Bone Spring Horizontal	Completed In Cherry Canyon sand	
LOCATION:	1980' FNL & 660' FEL ; Sec. 27, T23S-R27E; EDDY CO., NEW MEXICO	252' FNL & 1900 FEL; SEC 27, T23-S _ R27-E; EDDY CO, NEW MEXICO	500' FNL & 1650' FEL; SEC 27, T23-S _ R27-E; EDDY Co. NEW MEXICO	
WELL TOTAL DEPTH:	4105' MD TVD	9450' / 11925' MD	3545' MD TVD	
CONSTRUCTION:	VERTICAL WELL	Pilot Hole / Horizontal	VERTICAL WELL	
Surface Pipe	13 3/8" 450' 415 SX CMT	20 " 40' 5 3/4 YDS CMT	20" 40'	
Fresh Water Protection	8 5/8" 2050' 616 SX CMT	430' 450 SX CMT	8 5/8" 488' 106 SX CMT	
Intermed Casing	N/A	13.375 "	N/A	
Casing	N/A	9.625 " 2077' 712 SX	N/A	
		7" 7596'		
		6537' - 11925'		
Casing/Liner	5 1/2" 4000' 465 SX CMT	4.5 " 280 SX CMT 245 sx to surface	5 1/2" 3545' 805 SX CMT	
Tubing	N/A	N/A		
Plug Back Pilot Hole	N/A	6757' 1450 Ssx cmt	N/A	
Perforated interval	Proposed 3315-37'	7750' - 11798'	3350 - 3370'	
COMPLETION HIST.:				
Well Active/Inactive	ACTIVE	Active	ACTIVE	
Spud date:	6/12/2014	9/26/2012	10/29/2013	
Completion Date:	WQ Application Approval	12/19/2012		
Interval perforated:	Proposed - Cherry Canyon	2nd Bone Spring	Cherry Canyon	
MD TVD Horizontal	N/A	7408' TVD		
TD HORIZ Well (MD)	N/A	11925' MD		
Plugging Date:	N/A	N/A		
PROPOSED SPUD DATE	N/A	N/A		
Interval perf'd:	Proposed 3315-37'	N/A	3350-70' MD	
Well Bore Diagram (Para. II(B & VII))	N/A	N/A	N/A	

EXHIBIT VI.

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CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE:

6/17/2014

INDEX REFERENCE PAGE NO.: 4

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): VII.

EXHIBIT: VII. - DAILY INJECTION RATES

EXHIBIT: VII. - INJECTION WATER ANALYSIS (2nd Bone Spring)

EXHIBIT: VII. - RECEIVING ZONE WATER ANALYSIS

EXHIBIT: _____

EXHIBIT: _____

INJECTION RATES, VOLUMES AND PRESSURES

1. Maximum 2 BFPM with total rate of 2,880 BFPD.
Average rate: 1.5 BFPM with total rate of 2,160 BFPD.
2. System is closed.
3. 663 psi maximum pressure and 350 psi average based on
0.2 psi/ft x footage to top perforation (3,315').

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

LABORATORY NO.	0213-263
SAMPLE RECEIVED	2-13-13
RESULTS REPORTED	2-19-13

NO. 2
NO. 3
NO. 4

CHEMICAL AND PHYSICAL PROPERTIES

Form No. 3

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Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

LABORATORY NO. 0413-275
SAMPLE RECEIVED 4-11-13
RESULTS REPORTED 4-22-13

NO. 4

CHEMICAL AND PHYSICAL PROPERTIES

Results Reported As Milligrams Per Liter

The undersigned certifies the above to be true and correct to the best

Greg Ogden, B.S.

EXHIBIT VII.



Martin Water Laboratories, Inc.

Analysts & Consultants since 1953
Bacterial & Chemical Analysis

TO: Laboratory Services

LABORATORY NO. 0114-97

ADDRESS: 2609 W. Marland, Hobbs, NM 88240

SAMPLE RECEIVED: 1/6/2014

COMPANY: Laboratory Services

RESULTS REPORTED: 1/17/2014

LEASE: CAZA

COUNTY, STATE:

FORMATION:

FIELD OR POOL:

DESCRIPTION OF SAMPLES

No. 1 Submitted water sample - taken 1-3-14 from Forehand Ranch 27 #1.

No. 2 Submitted water sample - taken 1-3-14 from Forehand Ranch 27 #5.

No. 3 Submitted water sample - taken 1-3-14 from Mudslide Slim 5 Fed #1.

No. 4

Chemical and Physical Properties (milligrams per liter)	No. 1	No. 2	No. 3	No. 4
Specific Gravity @ 50°F.	1.1485	1.1382	1.1415	
pH When Sampled				
pH When Received	6.30	6.40	6.30	
Bicarbonate as HCO ₃	49	61	37	
Total Hardness, as CaCO ₃	37,500	51,000	36,000	
Calcium, as Ca	13,400	17,000	13,000	
Magnesium, as Mg	972	2,066	851	
Sodium and/or Potassium	75,094	55,264	74,087	
Sulfate, as SO ₄	469	868	782	
Chloride, as Cl	142,000	120,700	139,160	
Iron, as Fe	296	40	374	
Barium, as Ba	0	0	0	
Total Solids, Calculated	231,984	195,958	227,917	
Hydrogen Sulfide	0.00	0.00	0.00	
Resistivity, ohms/m @ 77°F.	0.052	0.059	0.053	

REMARKS: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By: Greg Ogden, D.S.

(432) 683-4521 * 709 W. Indiana, Midland, Texas 79701 * (fax) 682-8819

Remit to Address: P.O. Box 98, Midland, Texas 79702

Email: martinwaterlabs@nts-online.net

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CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

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INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): VIII.

EXHIBIT: VIII. - TYPE LOG

EXHIBIT: VIII. - FRESH WATER AQUIFERS

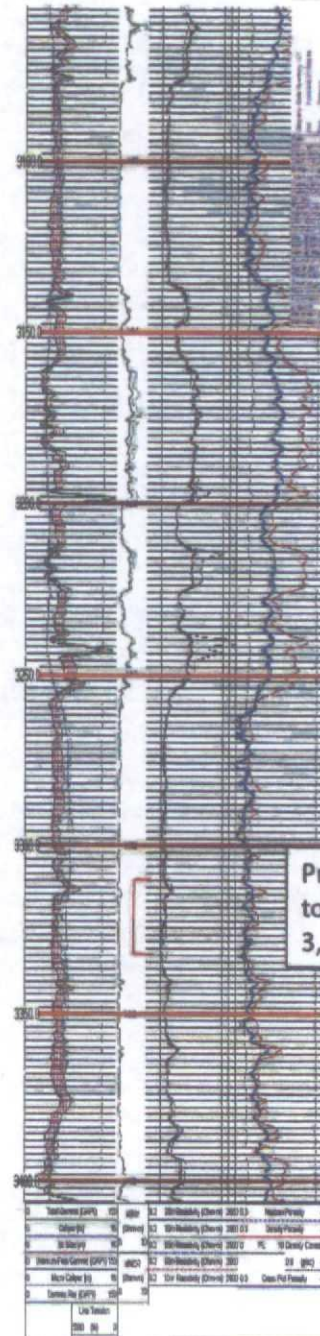
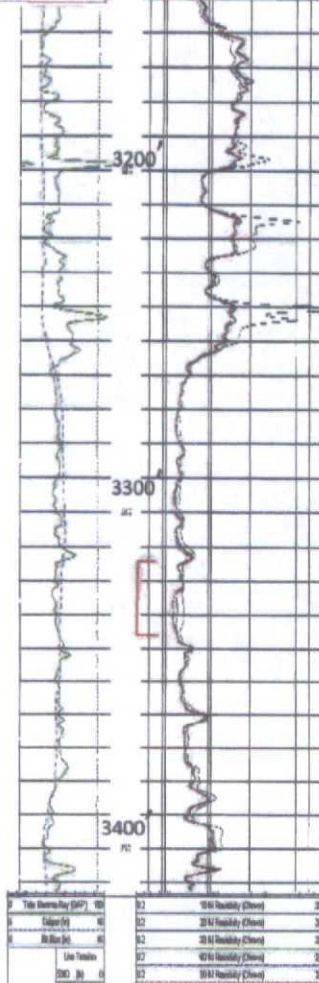
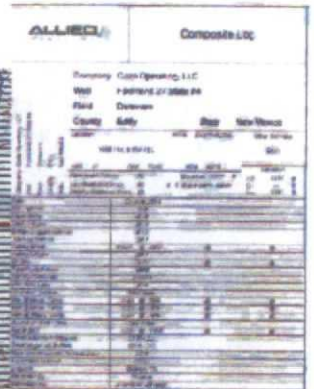
EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____



Cherry Canyon Top at 3,003'



Proposed Interval
to Perforate:
3,315 – 3,337' MD

<p>FRESH WATER AQUIFERS Forehand Ranch 27 State #4</p>

Thickness	Top of Formation	Bottom of Formation	Formation
Quaternary alluvium 300	0	300	up to
Upper Rustler 225	300	525	up to
Lower Rustler 235	525	760	up to
Castile or Salado	760		

These thicknesses were obtained from:

Geology and Ground-Water Resources of Eddy County, New Mexico, G.E. Hendrickson and R.S. Jones, Ground-Water Report 3, New Mexico Bureau of Mines and Mineral Resources, 1952

For the Caza Ridge site, the formation depths are:

Thickness	Top of Formation	Bottom of Formation	Formation
Quaternary alluvium	0	10	10
Dockum Group	10	310	up to 300
Dewey Lake Redbeds	310	560	up to 250
Rustler 170	560	730	up to
Salado	730		

These thicknesses were obtained from:

Geologic Atlas of Texas, Hobbs Sheet, William Battle Phillips Memorial Edition, The University of Texas at Austin, Bureau of Economic Geology, 1976

David Hamilton
RT Hicks Consultants
Office: 505-266-5004

CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

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INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): IX.

EXHIBIT: IX. - STIMULATION PROGRAM

EXHIBIT:

EXHIBIT:

EXHIBIT:

EXHIBIT:

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June 17, 2014

Re: Application for Authorization to Inject (Form C-108)
Caza-Forehand Ranch 27 State #4
Section 27, T23S-R27E
Eddy County, New Mexico

The completion of the Caza-Forehand Ranch 27 #4 well will consist of plastic lined tubing and associated plastic lined packer followed by a well stimulation, as necessary, with a solution of 15% HCl acid followed by fracture stimulation.

Caza Petroleum, Inc.

A handwritten signature in cursive script that reads 'Richard L. Wright'.

Richard L. Wright
Operations, Manager

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CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

INDEX REFERENCE PAGE NO.: 7

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): X.

EXHIBIT: X. - LOGGING DATA Will be filed @ OCD

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CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

INDEX REFERENCE PAGE NO.: 8

INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): XI.

EXHIBIT: XI. - FRESH WATER SAMPLE

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____

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709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8810

RESULT OF WATER ANALYSES

TO: Richard Wright
200 N. Lorraine, Suite 1550, Midland, TX 79701

LABORATORY NO. _____ 0413-393
SAMPLE RECEIVED _____ 4-22-13
RESULTS REPORTED _____ 4-22-13

COMPANY Caza Operating

LEASE

FIELD OR POOL

SECTION _____ BLOCK _____ SURVEY _____ COUNTY _____ STATE _____

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Water sample - taken 4-20-13 and labeled "Domestic Water Well - from faucet at pump outlet (Eddy, NM)

NO. 2

NO. 3

NO. 3
NO. 4**NO. 4**

REMARKS:

[illegible]

Form No. 8

cc: Fred Wright

Greg Ogden, B.S.

LEITCH PRINTING CO. - 222-1200

EXHIBIT XI.

CAZA PETROLEUM APPLICATION
FOR WELL APPROVAL

Forehand Ranch 27 State # 4

DATE: 6/17/2014

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INFORMATION AND EXHIBITS PERTAINING TO
SPECIFIC PARAGRAPHS OF OCD FORM C - 108

PARAGRAPH(S): XII.

EXHIBIT: XII. - SIGNED AFFIRMATION STATEMENT

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____

EXHIBIT: _____



June 17, 2014

Re: Application for Authorization to Inject (Form C-108)
Caza-Forehand Ranch 27 State #4
Section 27, T23S-R27E
Eddy County, New Mexico

All available geologic and engineering sources of data were reviewed. There is no apparent connectivity between proposed injection intervals and any existing sources of drinking water.

Caza Petroleum, Inc.

A handwritten signature in black ink, appearing to read 'Carroll R. Hird'.

Carroll R. Hird
Consulting Geologist

NOTICE LIST

Surface Owner

Commissioner of Public Lands
P.O. Box 1148
Santa Fe, New Mexico 87504

Offset Operators/Working Interest Owners

Caza Operating, LLC
Suite 200
10077 Grogan's Mill Road
The Woodlands, Texas 77380

S/2 Section 22 and All Section 27

Merit Management Partners IV, L.P.
Suite 500
13727 Noel Road
Dallas, Texas 75240

SW/4 Section 23

The Allar Company
P.O. Box 1567
Graham, Texas 76450

W/2 Section 26

Chevron U.S.A.
1400 Smith Street
Houston, Texas 77002

SE/4 Section 27