

HOBBS OCD

MAY 03 2018

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State of New Mexico  
Energy, Minerals and Natural ResourcesOIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505Form C-103  
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. Zia AGI #1 30-025-42208 ✓ Zia AGI D#2 30-025-42207 ✓
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other: Acid Gas Injection Well <input checked="" type="checkbox"/>		5. Indicate Type of Lease BLM STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator DCP Midstream LP		6. State Oil & Gas Lease No. NMLC065863
3. Address of Operator 370 17 <sup>th</sup> Street, Suite 2500, Denver, CO 80202		7. Lease Name or Unit Agreement Name Zia AGI
4. Well Location Surface Zia AGI#1 Unit Letter <u>L</u> : <u>2,100</u> feet from the SOUTH line and <u>950</u> feet from the WEST line ✓ Zia AGI D#2 Unit Letter <u>L</u> : <u>1893</u> feet from the SOUTH line and <u>950</u> feet from the WEST line ✓ Section <u>19</u> Township <u>19S</u> Range <u>32E</u> NMPM County <u>Lea</u>		8. Well Number #1 and D#2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,550 (GR)		9. OGRID Number 36785
		10. Pool name or Wildcat #1 AGI: Cherry Canyon/Brushy Canyon ✓ D#2 AGI: Devonian/Fusselman/Montoya ✓

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: Quarterly Injection Data Reports <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. **Well bore Diagrams attached.**

**Zia AGI#1 MAOP 2233 psig NMOCC Order R-13809 / Zia AGI D#2 MAOP 5208psig NMOCC Order R-14207**

**Quarterly Report for the period from January 1 through March 31, 2018 Pursuant to NMOCC Orders 13809 and 14207 for Zia AGI #1 and AGI D#2, respectively.**

This report includes the data and analysis of surface injection pressure, TAG temperature, casing annular pressure as well as downhole injection pressure, temperature and annular pressure for the Zia AGI#1 and for the Zia AGI D#2 for Q4 2017. AGI D#2 is the primary well for this facility with the Zia AGI#1 to be used only as a redundant and backup well. In August the static TAG in the inactive AGI#1 was displaced into the reservoir with methanol to reduce corrosion potential. Based on data for surface injection/annular pressure and their current MITs both wells continue to show excellent integrity. The spike in AGI #1 surface injection pressure which began on 1-24-18 is due to a malfunction of that pressure sensor. Trapped TAG was removed from the line on 3-27-18, but the sensor malfunction continues. DCP will be evaluating and trying to repair that sensor during Q2 of 2018. For the first quarter 2018, the values for injection parameters are generally stable and yielded the following results which are graphed in detail in attached Figures 1 through 10. All of the values presented below are averages for the static conditions in the AGI #1 since the well was not in operation for the entire reporting period. Only AGI D#2 was operated during this quarter and its average values represent the operational condition of the well.

**AGI#1 Surface Measurements (inactive):** Average TAG Line Pressure: 834 psig (sensor is malfunctioning so readings are not accurate), Average Annular Pressure: 135 psig, Average Pressure Differential: 699 psig (this reading also affected by surface pressure sensor malfunction), Average Tag Line Temperature: 65°F, Average TAG injection rate: 0.00 MMSCFD (not in use this quarter).

**AGI#1 Downhole Measurements (inactive):** Average bottom hole pressure 3402 psig, Average annular bottom hole pressure: 2249 psig, Average bottom hole TAG Temperature: 98°F.

**AGI D#2 Surface Measurements:** Average TAG Injection Pressure: 1478 psig, Average Annular Pressure: 353 psig, Average Pressure Differential: 1126 psig, Average Tag Temperature: 104°F, Average TAG injection rate: 4.46 MMSCFD.

Cont. pg 2

**AGI D#2 Downhole Measurements:** Average bottom hole pressure 6118 psig, Average bottom hole TAG Temperature: 165°F.  
Only AGI D#2 was operated during this reporting period.

The data gathered throughout the first quarter of 2018 demonstrate the correlative behavior of the annular pressure with the flowrate, injection pressure and temperature and also show the sensitive and correlative response of the annular pressure confirming that both wells have good integrity and are functioning appropriately within the requirements of their respective NMOCC orders. No mechanical changes to the either well or wellhead have been made since the last quarterly report. Well AGI D#2 displays excellent reservoir characteristics easily accommodating the required volumes of TAG from the facility. This well will be used as the primary disposal well for the facility with the AGI #1 well being operated as needed to confirm functionality and to allow for any required future maintenance on the AGI D#2 well. Surface injection pressure sensor for AGI #1 is malfunctioning, and DCP is evaluating and working on repairing that sensor.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.



SIGNATURE \_\_\_\_\_ TITLE Consultant to DCP Midstream LP DATE 4/9/2018

Type or print name: Alberto A Gutiérrez, RG E-mail address: aag@geolex.com PHONE: 505-842-8000

**For State Use Only**

APPROVED BY: \_\_\_\_\_ **Accepted for Record Only** DATE \_\_\_\_\_

Conditions of Approval (if any):

 5/3/2018

FIGURE 1: ZIA AGI #1 AND AGI #D2 INJECTION RATES

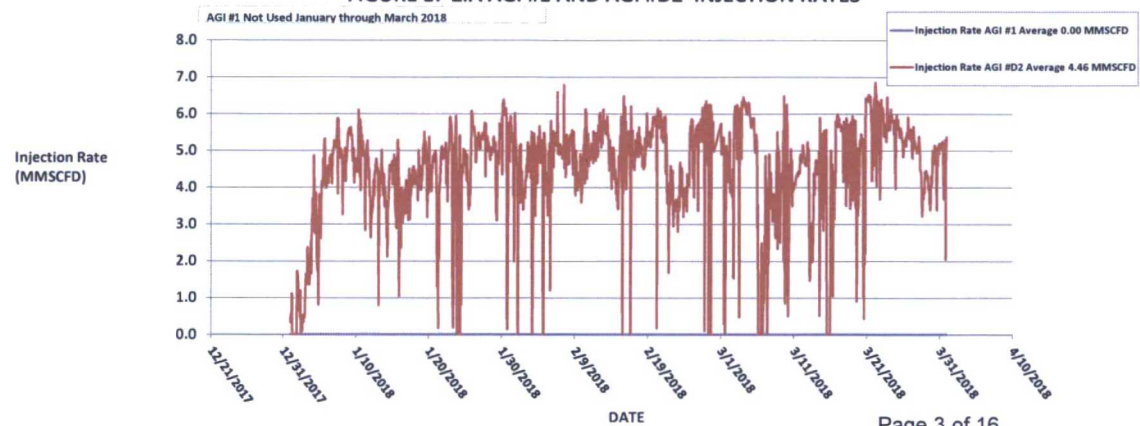


FIGURE 2: ZIA AGI #1 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION RATE

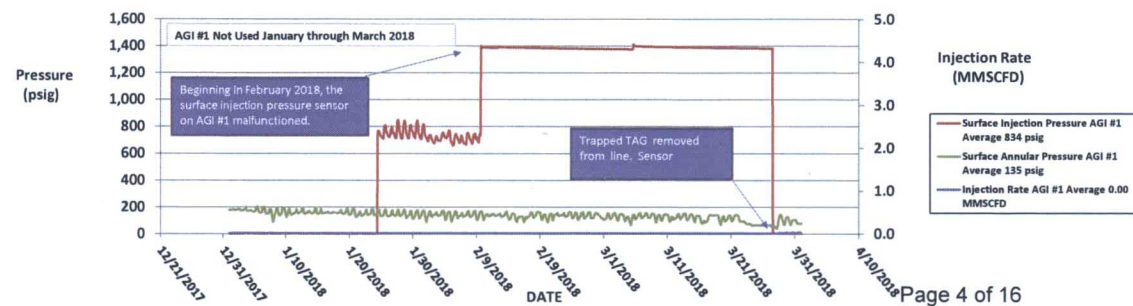




FIGURE 3: ZIA AGI #1 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION TEMPERATURE

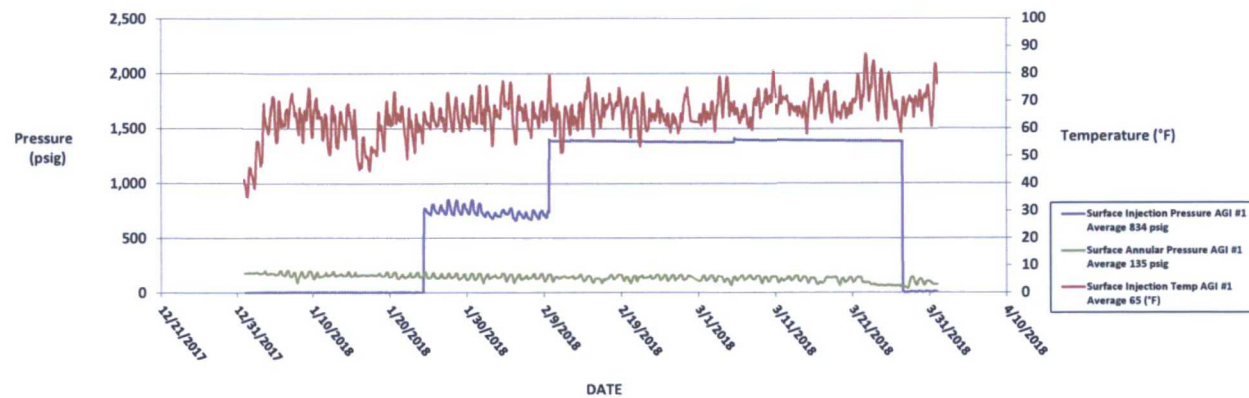


FIGURE 4: ZIA AGI #1 SURFACE INJECTION PRESSURE AND BOTTOM HOLE PRESSURE

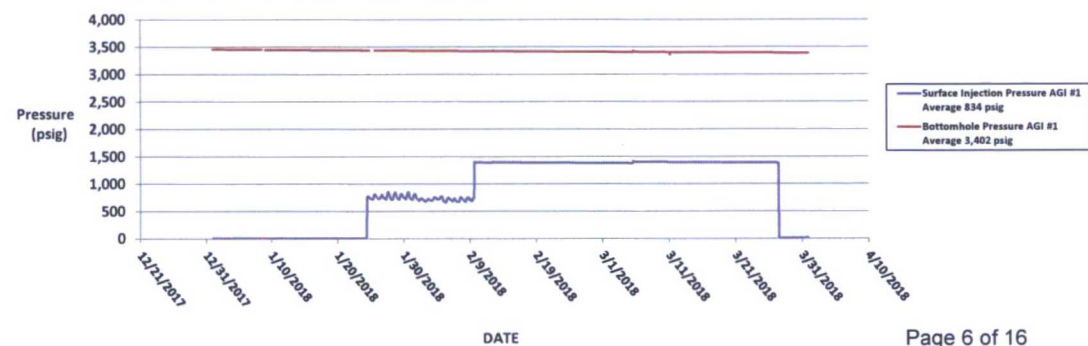


FIGURE 5: ZIA AGI #D2 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION RATE

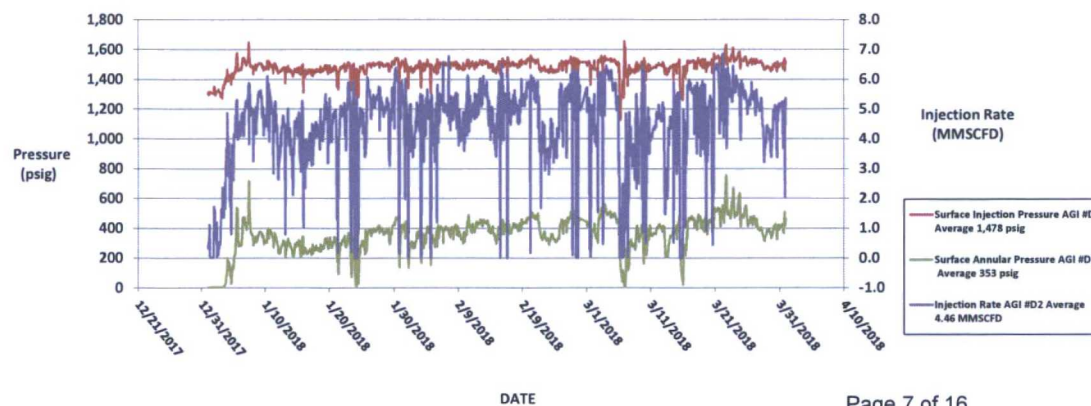


FIGURE 6: ZIA AGI #D2 SURFACE INJECTION PRESSURE, ANNULAR PRESSURE AND INJECTION TEMPERATURE

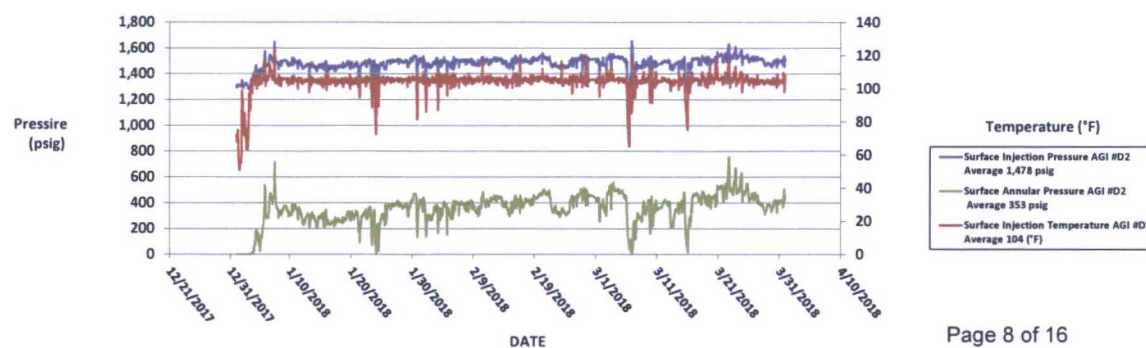
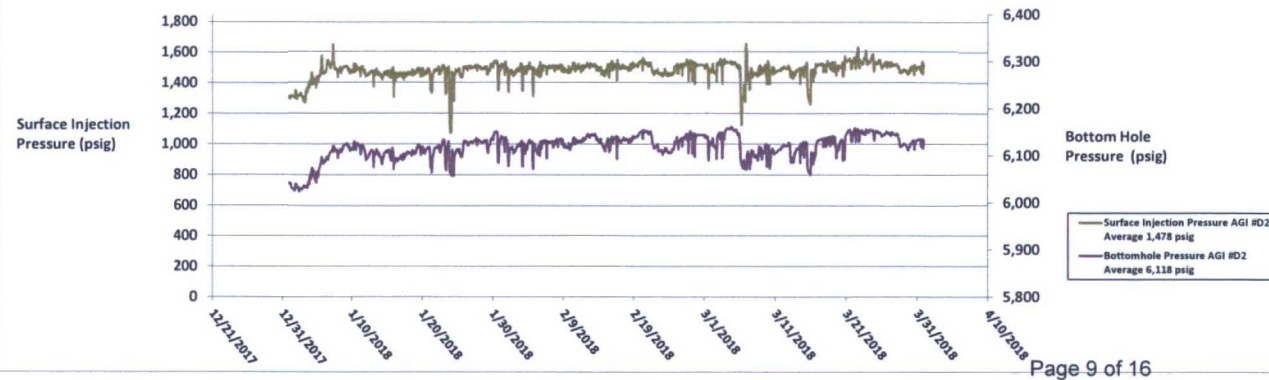




FIGURE 7: ZIA AGI #D2 SURFACE INJECTION PRESSURE AND BOTTOM HOLE PRESSURE



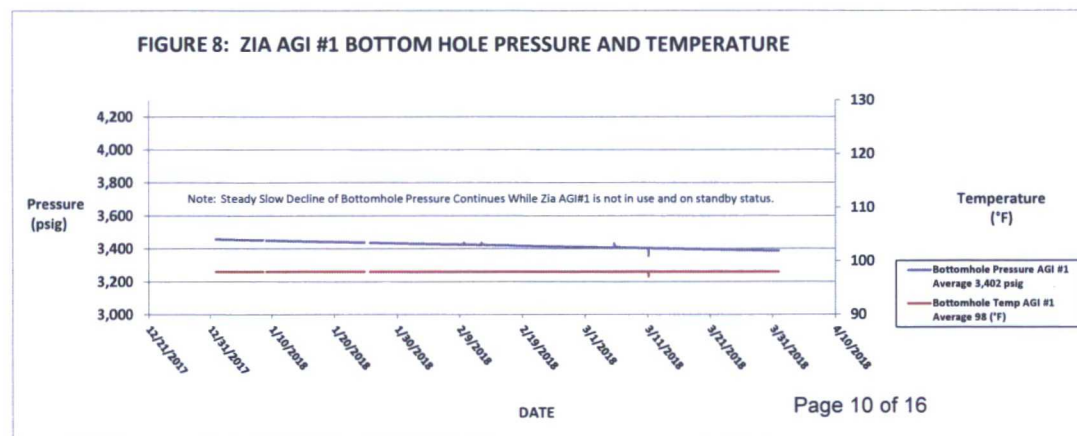
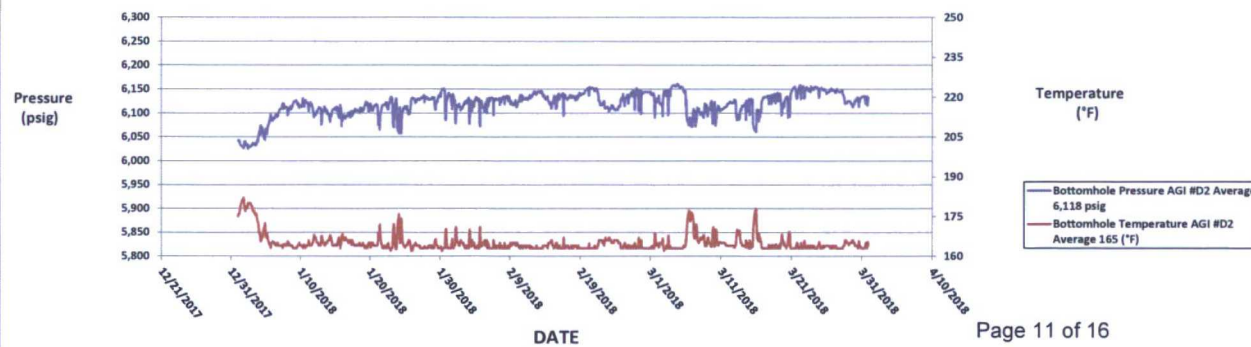


FIGURE 9: ZIA AGI #D2 BOTTOM HOLE PRESSURE AND TEMPERATURE



**FIGURE 10: ZIA AGI #1 AND #D2 DIFFERENTIAL PRESSURE**

The graph displays two data series: Differential Pressure AGI #1 (blue line) and Differential Pressure AGI #D2 (red line). The y-axis represents Pressure in psig, ranging from -500 to 2,000. The x-axis represents the DATE, from 12/12/2017 to 4/10/2018. AGI #1 starts near 0 psig, jumps to approximately 600 psig in late January, and then to about 1,200 psig in late February. It shows a significant drop-off to near 0 psig in late March. AGI #D2 starts around 1,300 psig, drops to about 1,100 psig in late January, and remains relatively stable around 1,100-1,200 psig thereafter. A text box highlights the increase and drop-off in differential pressure for AGI #1, attributing it to a malfunction of the AGI #1 surface.

Parameter	Average Value (psig)
Differential Pressure AGI #1	699
Differential Pressure AGI #D2	1,126

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### **WELL SCHEMATICS**

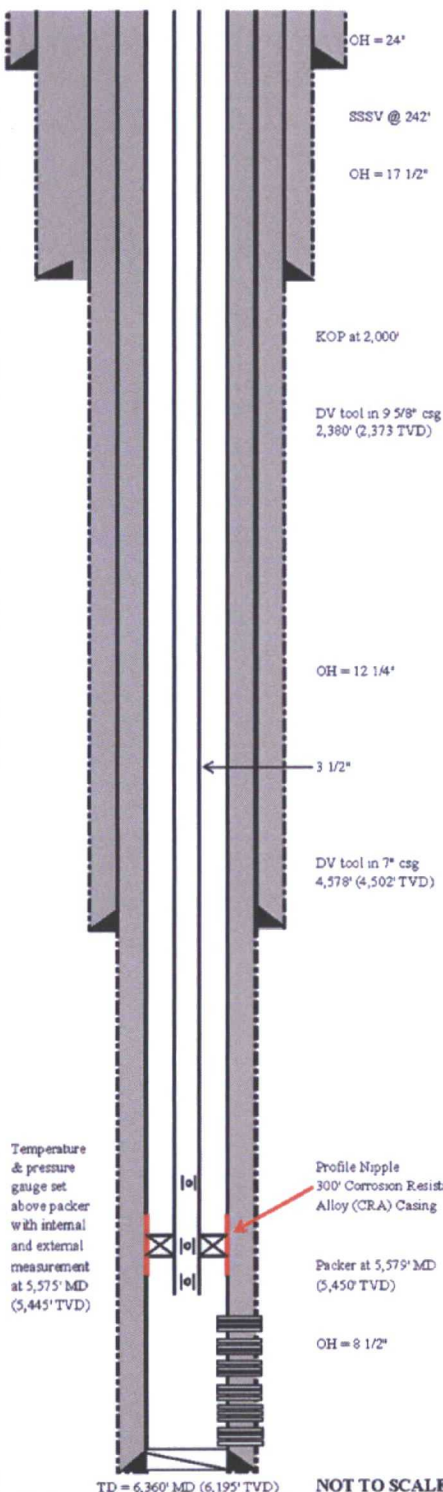
**Zia AGI#1      API# 30-025-42208**

**Zia AGI D#2      API# 30-025-42207**



Location: DCP Zia AGI #1 (API 30-025-42208)  
STR: Section 19(L), T19S-R32E (2100' FSL & 950' FWL)  
County, St.: LEA COUNTY, NEW MEXICO

**16.2 DEGREE SLANT**



**CONDUCTOR CASING**

20' Conductor at 120' (cement to surface)

**SURFACE CASING**

13 3/8", 68.0#/ft, J55, BTC at 842' (cement to surface)

**ANNULAR FLUID:**

Diesel Fuel from top of packer to surface

**INTERMEDIATE CASING:**

9 5/8", 40.0#/ft, J55, LT&C at 4,921' (4,830' Ft. TVD) cement to surface

**PRODUCTION CASING:**

7 5/8", 29.7#/ft, HCL-80 LT&C, Surf To 319' (MTD)

7", 26#/ft, HCL-80 LT&C, 319' to 5,306' (MTD)

7", 26#/ft, 28Cr VAM TOP, 5,306' to 5,615' (MTD)

7", 26#/ft, HCL-80 LT&C, 5,615' to 6,344' (MTD) cement to surface

**TUBING:**

Subsurface Safety Valve at 242' MTD (242' TVD)

3 1/2", 9.3#/ft, L-80 Fiberglass Lined Tubing surf to 5,443' MTD, ID=2.684", Drift=2.559"

3 1/2", 9.3#/ft, SM2550 from 5,443' to 5,575' MTD

All tubing to include premium threads utilizing metal to metal sealing in collars

**PACKER:**

Permanent Production Packer @ 5,575' MTD (5,450' TVD)

Adj. Choke (if needed, placed in nipple below packer)

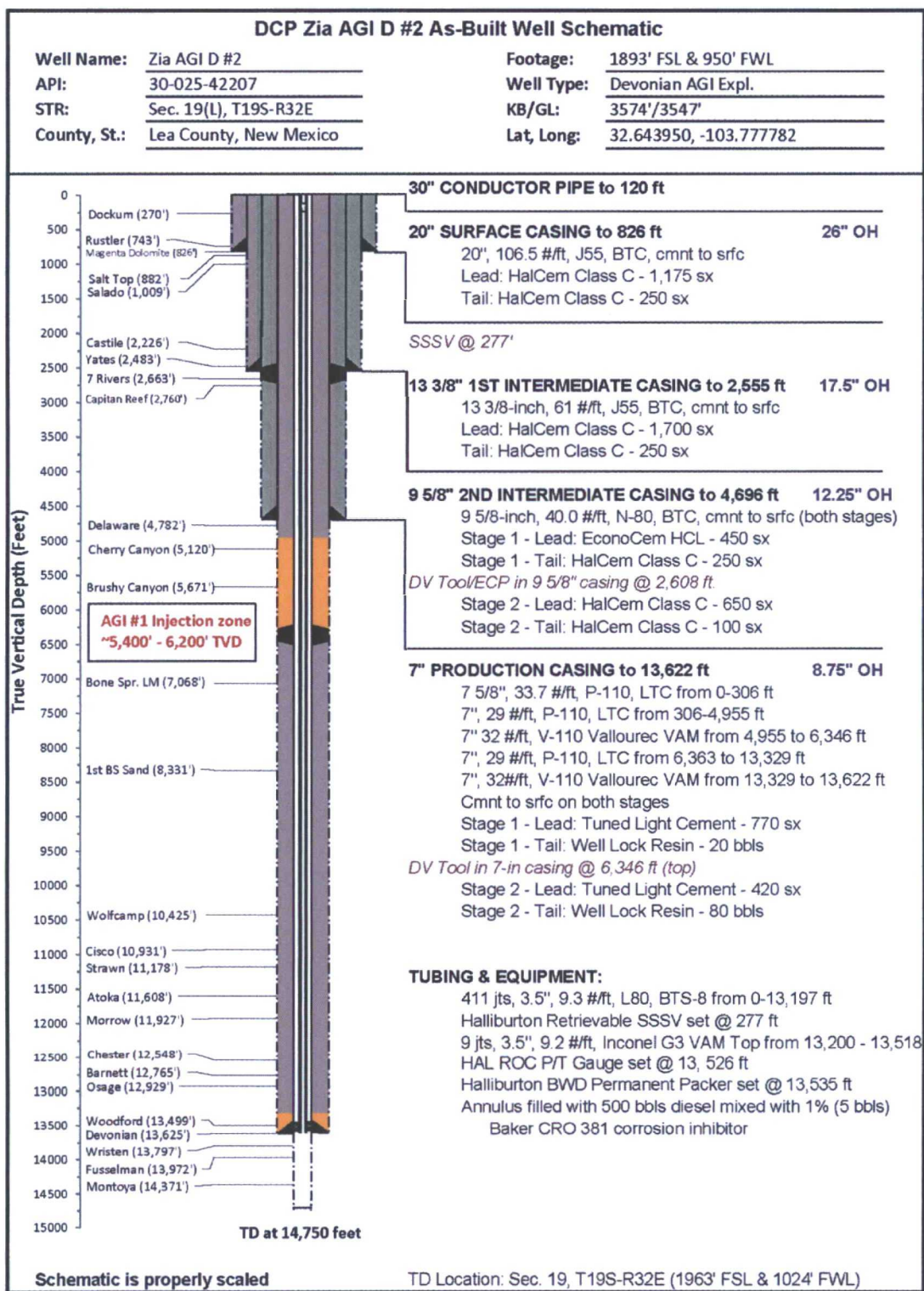
Check valve (if needed, placed in nipple below packer)

**PERFORATIONS:**

MD  
5,682' - 5,756' complete and inject  
5,788' - 5,890' complete and inject  
5,907' - 6,010' complete and inject  
6,030' - 6,136' complete and inject  
6,162' - 6,260' complete and inject

**NOT TO SCALE**

Bottom Hole Location: Section 19(G), T19S, R32E (2,099' FNL & 862' FWL)



**FIGURE 3: Zia AGI D #2 as-built well schematic**





# DCP MIDSTREAM

ZIA AGI #2

LEA COUNTY, NEW MEXICO

1/22/17

Company Rep.  
Tool Specialist

GARY HENRICH  
SCOTT WALTON  
Office ODESSA  
SAP No. 903711839

Final Installation		LEA COUNTY, NEW MEXICO		Office ODESSA	
		1/22/17		SAP No. 903711839	
Installation	Length	Depth	Description	OD	ID
1	25.00	7.52	KB CORRECTION		
2	0.50	32.52	TUBING HANGER		
3	1	33.02	DOUBLE PIN ADAPTER	3.500	2.925
3	2	36.64	1 JOINT 3.5" 9.3# L-80 BTS8 TUBING	3.500	2.925
3	3	68.05	3.5" 9.3# L80 BTS8- TUBING SUBS(9.73, 7.75)	3.500	2.925
4	188.39	85.53	6 JOINT 3.5" 9.3# L-80 BTS8 TUBING	3.500	2.925
4	5	273.92	3.5" 9.3# X-OVER SUB BTS8 BOX X AB-TC-II PIN	3.940	2.910
6	4.40	277.64	HALLIBURTON TUBING RETRIEVABLE SAFETY VALVE 3.5" 9.2# AB-TC-II BOX X PIN 478HRE18 102588547 SN-0003667054-2 NICKLE ALLOY 925 15,000# PRESSURE RATING 750 PSI CLOSING 2300 PSI OPENING 2.813" R' PROFILE IN TOP OF VALVE.	5.290	2.813
5	7	282.04	3.5" 9.3# X-OVER SUB AB-TC-II BOX X BTS8 PIN	3.940	2.910
6					
7	8	285.79	411 JOINTS 3.5" 9.3# L80 BTS8 TUBING	3.500	2.684
9	3.75	13,197.14	X-OVER PUP JOINT 3.5" 9.3# BTS8 box X 3.5" 9.3# VAMTOP pin	3.930	2.684
10	317.56	13,200.89	9 JOINTS 3.5" 9.3# VAMTOP SM2550 NICKEL TUBING	3.500	2.992
11	1.33	13,518.45	HALLIBURTON 2.562 X 3.5# 9.3# L-80 VAM TOP LANDING NIPPLE (811R25635)(102204262)(SN-0003744132-3) NICKEL ALLOY 925	3.940	2.562
12	6.35	13,519.78	3.5" 9.2# G3-125 VAMTOP BOX X PIN SUB (COUPLING ON BTM)	3.930	2.992
13	4.32	13,526.13	HALLIBURTON ROC GAUGE MANDREL 3.5" VAMTOP PXP 102329817 SN-ATM-16-106689-1 ROC GAUGE ROC16K175C 101863926 WD#9381-6034 ADDRESS 094 SN-ROC004482	4.670	2.950
14	3.75	13,530.45	3.5" 9.2# G3-125 VAMTOP BOX X PIN SUB	3.930	2.992
A			HALLIBURTON SEAL ASSEMBLY		
a-1	1.73	13,534.20	STRAIGHT SLOT LOCATOR 3.5" VAMTOP X 3.5" 10.2# VAMINSIDE INCOLOY 925 (212S4042-D)(102351212)(SN-G3362241-1)	4.460	2.886
a-2	4.33	13,535.93	EXTENSION 3.5" 10.2# VAMINSIDE NICKEL ALLOY 925 (212X38814-D) (158726)(SN-G3362256-1)	3.860	2.902
9	a-3	4.33	EXTENSION 3.5" 10.2# VAMINSIDE NICKEL ALLOY 925 (212X38814-D) (158726)(SN-G3362256-1)	3.860	2.902
10	a-4	5.00	5 -SEAL UNITS 4" X 3.5" 10.2 VAM TOP NICKEL ALLOY 925 MOLDED AFLAS SEALS 4.07 OD, 8000 PSI (812MSA40003-D)(102133617)(SN-0003744129-1 0003744129-4) (0003744129-3 0003744129-2 0003744129-5) (METAL OD 3.95") (TOP 2 SEAL ARE FLOUREL BOTTOM 3 SEALS ARE AFLAS)	4.050	2.883
11	a-5	0.54	MULE SHOE GUIDE 3.5" 10.2# VAMINSIDE NICKEL ALLOY 925 (812G40137-D) (102133560)(SN-3744130)	3.950	2.980
12			LAND HANGER WITH 26,000# COMPRESSION PUTS 20,000# COMPRESSION ON PACKER PICK UP WEIGHT IS 132,000# SLACK OFF IS 120,000# HALLIBURTON PACKER ASSEMBLY		
13					
14					
15	3.11	13,535.00	HALLIBURTON 7" 26-32# BWD PERMANENT PACKER WITH 4" BORE, 4.75" 8UN BOX THREAD, INCOLOY 925 (212BWD70412-D)(101303583)(SN C3774119) WAS RUN ON W/L AND TOP @ 13535' ELEMENTS @ 13533.21'	5.880	4.000
16	16	13,538.11	SEAL BORE EXTENSION 4" X 8" INCOLOY 925 4.75 8UN PXP (PN212C7674)(120051359)(SN-0003744131-1)	5.030	4.000
17	17	13,549.52	X-OVER 4 75" 8UN BOX X 3.5" 9.3# VAM INCOLOY 925 (212N100131)(101719647)(SN-0003744131-1)	5.680	2.963
18	18	13,550.35	PUP JOINT 3.5" 9.3# VAM TOP INCOLOY 925 WITH COUPLING	3.520	2.940
19	1.33	13,556.11	HALLIBURTON 2.562" X 3.5" VAMTOP LANDING NIPPLE (811X25635) (102204262) ( SN- 0003744132-1) NICKEL ALLOY 925	3.940	2.562
20	20	13,557.44	PUP JOINT 3.5" 9.3# VAM INCOLOY 925 WITH COUPLING	3.520	2.930
21	21	13,563.20	HALLIBURTON 2.562" X 3.5" VAMTOP LANDING NIPPLE (811X25635) (102204262) ( SN- 0003744132-2) NICKEL ALLOY 925	3.940	2.562
22	22	13,564.53	WIRELINE RE-ENTRY GUIDE 3.5" 9.3# VAM INCOLOY 925	3.970	3.000
		13,565.26	BOTTOM OF ASSEMBLY		
			EOC @ 13,622' TD @ 14,750'		
			DIESEL USED FOR PACKER FLUID		
			Filename:		

Filename:

FIGURE 4: Zia AGI D #2 as-built injection tubing and equipment schematic