

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**

1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**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 and Natural Resources

## Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address SOLIS PARTNERS L.L.C. P.O. BOX 5790 MIDLAND, TX 79704		<sup>2</sup> OGRID Number 330238
		<sup>3</sup> API Number 30-005-62801
<sup>4</sup> Property Code 329356	<sup>5</sup> Property Name PATHFINDER AFT STATE	<sup>6</sup> Well No. 10

**<sup>7</sup> Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	21	10-S	27-E		660	SOUTH	2,310	EAST	CHAVES

**<sup>8</sup> Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	21	10-S	27-E		660	SOUTH	2,310'	EAST	CHAVES

**<sup>9</sup> Pool Information**

Pool Name DIABLO; SAN ANDRES	Pool Code 17640
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**Additional Well Information**

<sup>11</sup> Work Type P	<sup>12</sup> Well Type O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type S	<sup>15</sup> Ground Level Elevation 3,827'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 2,190'	<sup>18</sup> Formation SAN ANDES	<sup>19</sup> Contractor LIBERTY PUMP	<sup>20</sup> Spud Date 05/10/2021
Depth to Ground water	Distance from nearest fresh water well			Distance to nearest surface water

x ☐ We will be using a closed-loop system in lieu of lined pits**<sup>21</sup> Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
PROD	9 1/2"	7 5/8"	29.5# & 26.4# N-80	6,415'	STAGE 1 -650 sx	3,948' ( CIRC 100 sx)
(actual csg &					STAGE 2 - 950 sx	SURFACE (CIIRC 10 sx)
cmt data)					DV TOOL @ 3,948'	

**Casing/Cement Program: Additional Comments**

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**<sup>22</sup> Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
MANUAL/HYDRAULIC	5,000 psi	5,000 psi	CAMERON

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:



Printed name: Debi Garza

Title: Regulatory Coordinator

E-mail Address: debi.garza@solispartnersllc.com

Date: 05/03/2021

Phone: 432-888-1880

## OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

**PATHFINDER AFT STATE #10: RECOMPLETE WELL FROM FUSSELMAN TO SAN ANDRES:**

- MIRU workover rig. Re-enter TA'd well.
- Pressure test 7-5/8" N-80 casing and CIBP @ 6,275' w/ 35' cmt cap to 500 psig for 30 minutes with chart.
- Clean-Out wellbore to PBTD at approx. 6,240' with bit & casing scraper. Circulate hole clean using reverse unit and tank.
- Set 7-5/8" CIBP on wireline at 2,190' and dump bail 35' cement cap on plug. PBTD = 2,155' (TOC).
- Perforate San Andres: 1,958'-2,095' (57' @ 2spf – 114 perfs).
- Acidize SA perfs with approx. 11,400 gal 20% NEFE HCl + additives.
- Flowback well, swab if necessary, to clean up.
- RIH with 2-3/8" 4.7# J-55 EUE tubing, rods, and pump. Hang well on for production.
- RDMO workover rig.
- Test well.

Spot 25 sx Cmt @ 5633' - 5533'. T of Wcmp

Spot 25 sx Cmt @ 4900 - 4800'. T of Abo

Spot 25 sx Cmt @ 2650' - 2550'. T of Glorietta

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.



16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

**1. Operator name   2. Lease and Well Number   3. API Number   4. Unit Letter   5. Quarter Section (feet from the North, South, East or West)   6. Section, Township and Range   7. Plugging Date   8. County                      (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS**

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-005-62801	<sup>2</sup> Pool Code 17640	<sup>3</sup> Pool Name DIABLO; SAN ANDRES
<sup>4</sup> Property Code 329356	<sup>5</sup> Property Name PATHFINDER AFT STATE	
<sup>7</sup> OGRID No. 330238	<sup>8</sup> Operator Name SOLIS PARTNERS, L.L.C.	<sup>6</sup> Well Number 10  <sup>9</sup> Elevation 3,827'

<sup>10</sup> Surface Location

UL or lot no. O	Section 21	Township 10-S	Range 27-E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 2,310	East/West line EAST	County CHAVEZ
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. O	Section 21	Township 10-S	Range 27-E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 2,310	East/West line EAST	County CHAVEZ
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<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

<div style="text-align: center;"> </div>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <u>Debi Garza</u> Date: <u>1/26/2021</u></p> <p>Printed Name: _____</p> <p>E-mail Address: <u>debi.garza@solispartnersllc.com</u></p>	
	<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></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>Date of Survey: _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number: _____</p>	

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State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit Original  
to Appropriate  
District Office

### GAS CAPTURE PLAN

Date: 3/10/2021

☒ Original Operator & OGRID No.: [330238] SOLIS PARTNERS L.L.C.\_\_\_\_  
☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
PATHFINDER AFT STATE #10	30-005-62801	O-21-10S-27E	0660S 2310E	10	NONE	FLOW TO BATTERY & SALES METER

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to IACX ROSWELL and will be connected to IACX ROSWELL low pressure gathering system located in CHAVEZ County, New Mexico. It will require 0' of pipeline to connect the facility to low pressure gathering system. SOLIS PARTNERS L.L.C. provides (periodically) to IACX ROSWELL a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, SOLIS PARTNERS L.L.C. and IACX ROSWELL have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at IACX PATHFINDER AMINE Processing Plant located in Sec. 21, Twn. 10S, Rng. 27E, CHAVEZ County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on IACX ROSWELL system at that time. Based on current information, it is SOLIS PARTNER L.L.C.'s belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



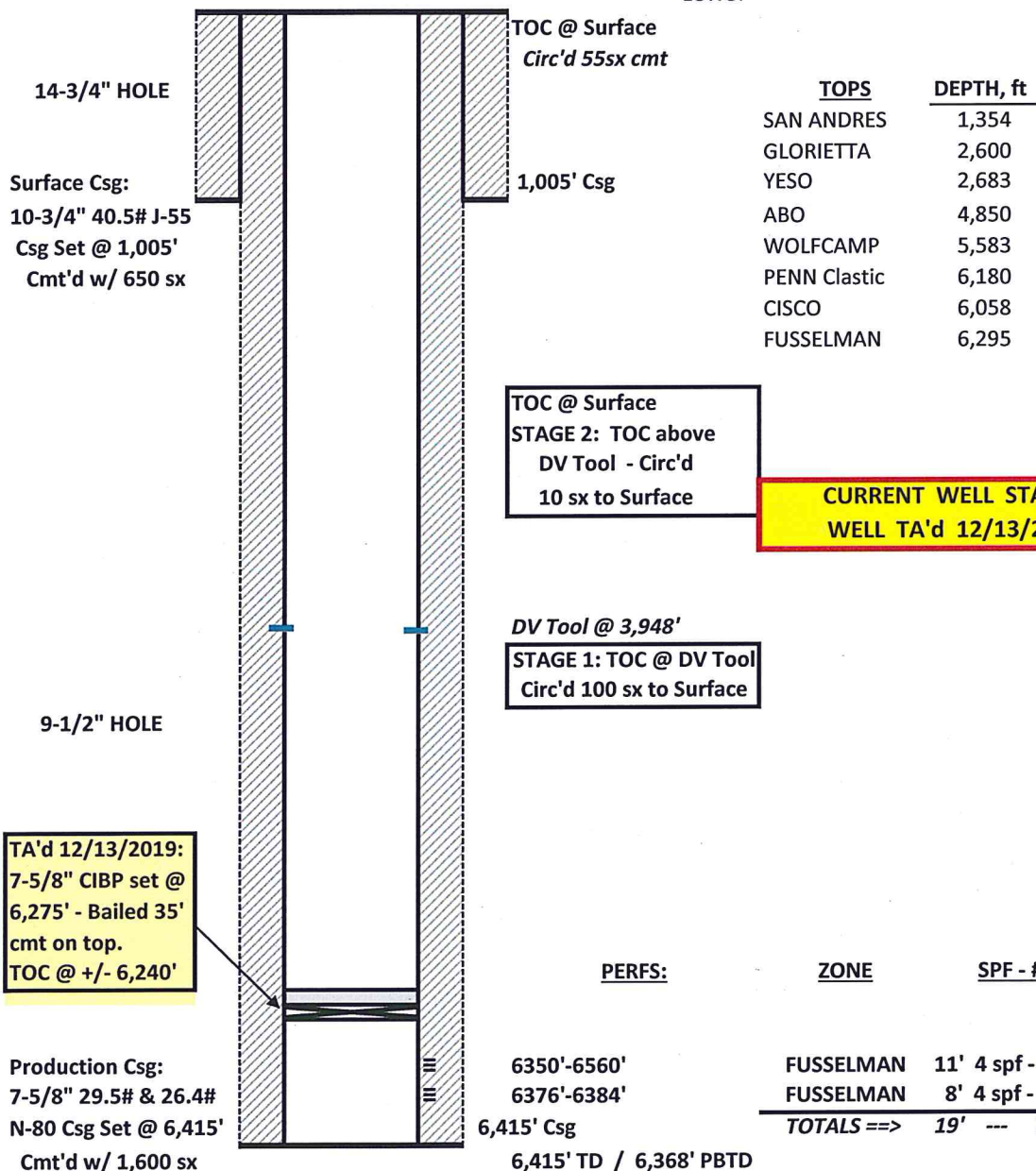
# SOLIS PARTNERS, LLC

## WELLBORE DIAGRAM

Lease/Well No.: **PATHFINDER AFT STATE #010 (TA'd)** ELEVATION, GL: **3,827 ft**  
 Location: **660' FSL & 2,310' FEL**  
**UL: O, SEC: 21, T: 10-S, R: 27-E** FIELD: **DIABLO - FUSSELMAN**  
**CHAVES County, NM**  
 LEASE No.: **State LG-5246** Spudded: **10/2/1990**  
 API No.: **30-005-62801** Drlg Stopped: **10/24/1990**  
 Completed: **11/9/1990**

### ROTARY RIG

LAT:  
LONG:



**CURRENT WELL STATUS**  
**WELL TA'd 12/13/2019**

Originally Drilled as the PATHFINDER AFT STATE #010 by YATES PETROLEUM CORP.

TEMPORARILY ABANDONED by VANGUARD OPERATIONS - 12/13/2019. Set 7-5/8" CIBP at 6,275' & Bailed 35sx on top of CIBP. TOC = 6,240'. Ran MIT 12/13/19 - OK.

### Cumulative Prod. (03/31/20):

OIL	156.419	MBO
GAS	316.156	MMCF
WATER	4,144.164	MBW
INJECT.	----	MBW

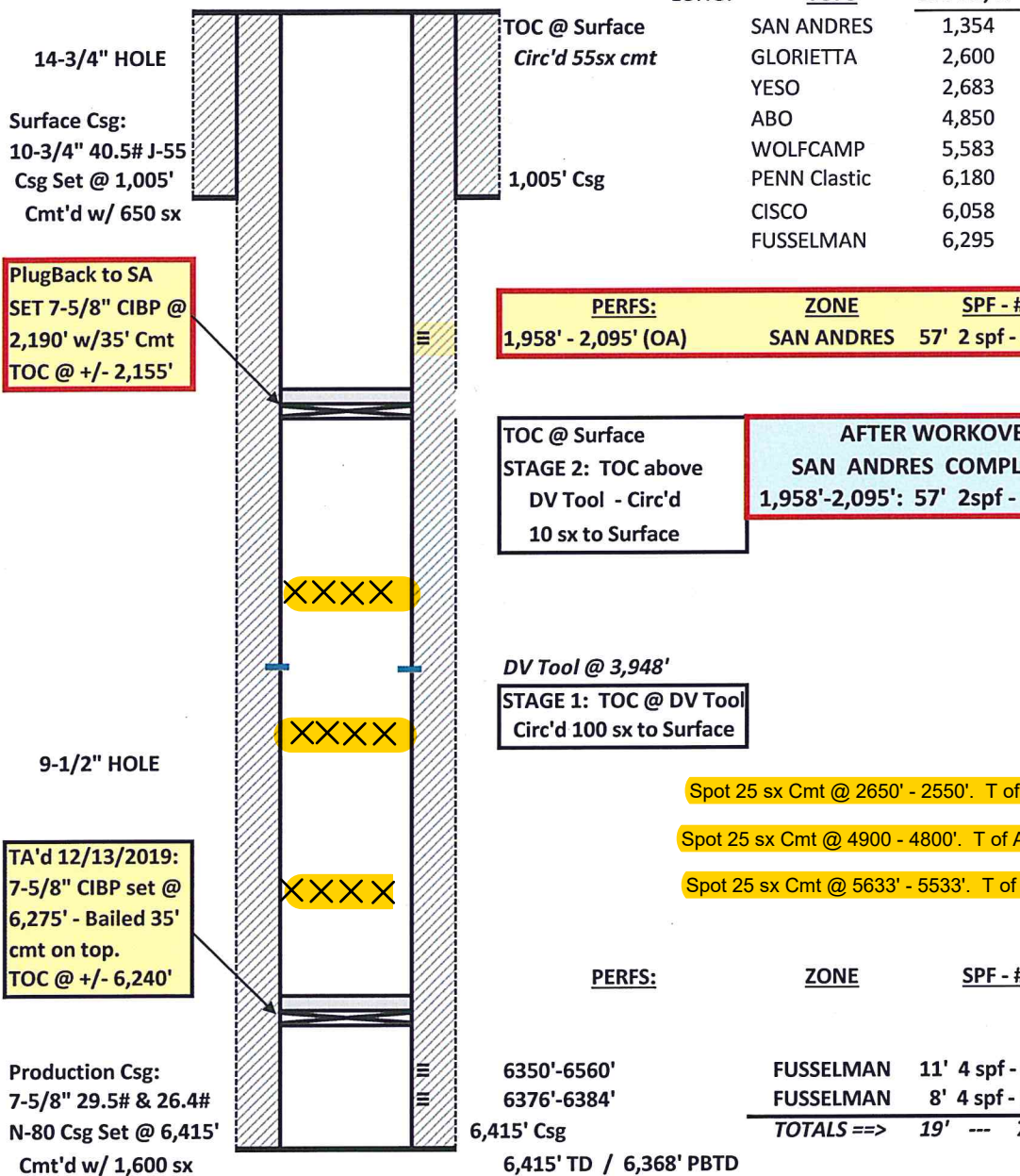
HPS: 09/15/2020

# SOLIS PARTNERS, LLC

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GAS	316.156	MMCF
WATER	4,144.164	MBW
INJECT.	-----	MBW

HPS: 09/15/2020



PATHFINDER AFT STATE #010WELL PERFORATION, ACID JOB, FRAC JOB, & WELL TEST DETAILS

PERFS			ACID JOB(S)				FRAC JOB(S)				INITIAL POTENTIAL TEST				
TOP	BOTTOM	ZONE	DATE	ACID GALS	ACID TYPE	DATE	FRAC FLUID GALS	FLUID TYPE	SAND LBS	SAND SIZE	REMARKS	TEST DATE	OIL BOPD	GAS MCFD	WATER BWPD
6,376	6,384	(8') FUSSELMAN	11/2/1990	500	20% NEFE HCl						FLOWING	11/9/1990	220	120	0
						(Spotted Before Perforing)									
						8' @ 4 spf = 32 perfs // 62.5 gal/ft // 15.6 gal/perf									
6,350	6,360	(11') FUSSELMAN	3/11/2001	500	20% NEFE HCl										
						11' @ 4 spf = 44 perfs // 45.5 gal/ft // 11.4 gal/perf									
6,376	6,384	(8') FUSSELMAN	11/2/1990												
6,350	6,360	(11') FUSSELMAN	3/11/2001												
NO TESTS REPORTED															

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

COMMENTS  
  
Action 26806

COMMENTS

Operator: SOLIS PARTNERS, L.L.C.                      P.O. Box 5790                      Midland, TX79704			OGRID: 330238	Action Number: 26806	Action Type: APD
Created By	Comment			Comment Date	
kpickford	KP GEO Review 5/6/2021			05/06/2021	

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CONDITIONS  
  
Action 26806

**CONDITIONS OF APPROVAL**

Operator: SOLIS PARTNERS, L.L.C.      P.O. Box 5790      Midland, TX79704			OGRID: 330238	Action Number: 26806	Action Type: APD
OCD Reviewer		Condition			
gcordova		See attached COA's & changes to plugging plan			