

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-005-62801
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No. LG-5246-0003
7. Lease Name or Unit Agreement Name PATHFINDER
8. Well Number 10
9. OGRID Number 330238
10. Pool name or Wildcat DIABLO, SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3827' GL

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.)
1. Type of Well: Oil Well [X] Gas Well [ ] Other [ ]
2. Name of Operator SOLIS PARTNERS LLC
3. Address of Operator 4501 SANTA ROSA DR., MIDLAND, TX 79707
4. Well Location
Unit Letter O : 660 feet from the SOUTH line and 2310 feet from the EAST line
Section 21 Township 10S Range 27E NMPM County CHAVES

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [ ]
TEMPORARILY ABANDON [ ] CHANGE PLANS [X]
PULL OR ALTER CASING [ ] MULTIPLE COMPL [ ]
DOWNHOLE COMMINGLE [ ]
CLOSED-LOOP SYSTEM [ ]
OTHER: [ ]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [ ] ALTERING CASING [ ]
COMMENCE DRILLING OPNS. [ ] P AND A [ ]
CASING/CEMENT JOB [ ]
OTHER: [ ]

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.

PLEASE SEE ATTACHMENTS

Spud Date: 10/02/1990

Rig Release Date:

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

Vicki Kay

LAND DIRECTOR

Type or print name VICKI KAY E-mail address: vicki.kay@solispartnersllc.com PHONE:512-921-2990

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):

Santa Fe Main Office  
Phone: (505) 476-3441 Fax: (55) 476-3462  
General Information  
Phone: (505) 629-6116

State of New Mexico

Form C-101  
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

Online Phone Directory Visit:  
<https://www.emnrd.nm.gov/ocd/contact-us/>

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 ANDRES	<sup>19</sup> Contractor LIBERTY PUMP	<sup>20</sup> Spud Date 08/26/2024
Depth to Ground water	Distance from nearest fresh water well		Distance to nearest surface water	

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#	6,415'	STAGE 1 - 650 sx	3,948' (CIRC 100 sx)
					STAGE 2 - 950 sx	SURFACE (CIRC 10 sx)
					DV TOOL @ 3,948'	

Casing/Cement Program: Additional Comments

<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: *Scott Parsons*

Printed name: Scott Parsons

Title: Engineer

E-mail Address: scott.parsons@solispartnersllc.com

Date: 08/21/2024

Phone: (817) 996-9270

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' @ 2 spf, 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 production.
- RDMO workover rig.
- Test well

Spot 25 sx Cmt @ 5,633'-5,533'. T of Wcmp

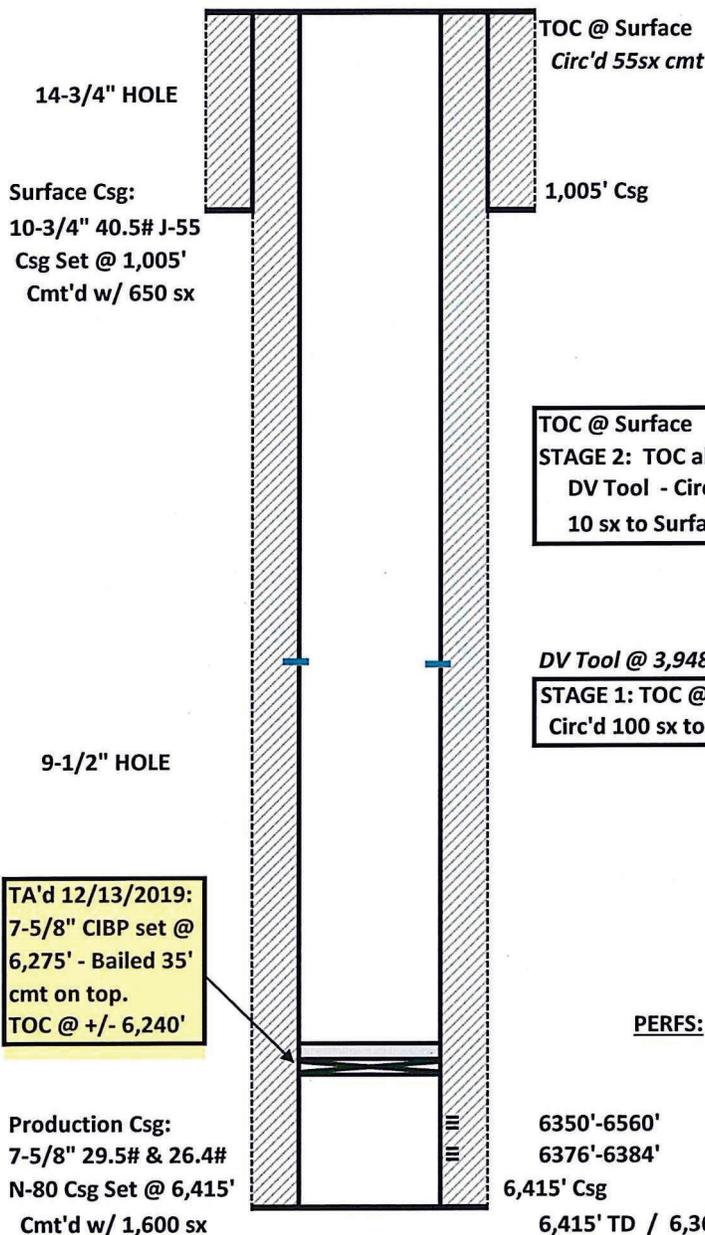
Spot 25 sx Cmt @ 4,900'-4,800'. T of Abo

Spot 25 sx Cmt @ 2,650'-2,550'. T of Glorietta

# 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:



TOPS	DEPTH, ft
SAN ANDRES	1,354
GLORIETTA	2,600
YESO	2,683
ABO	4,850
WOLFCAMP	5,583
PENN Clastic	6,180
CISCO	6,058
FUSSELMAN	6,295

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

PERFS:	ZONE	SPF - # Holes	DATE
	FUSSELMAN	11' 4 spf - 44 holes	03/11/01
	FUSSELMAN	8' 4 spf - 32 holes	11/02/90
<b>TOTALS ==&gt;</b>		<b>19' --- 76 holes</b>	

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	<b>156.419</b>	MBO
GAS	<b>316.156</b>	MMCF
WATER	<b>4,144.164</b>	MBW
INJECT.	----	MBW

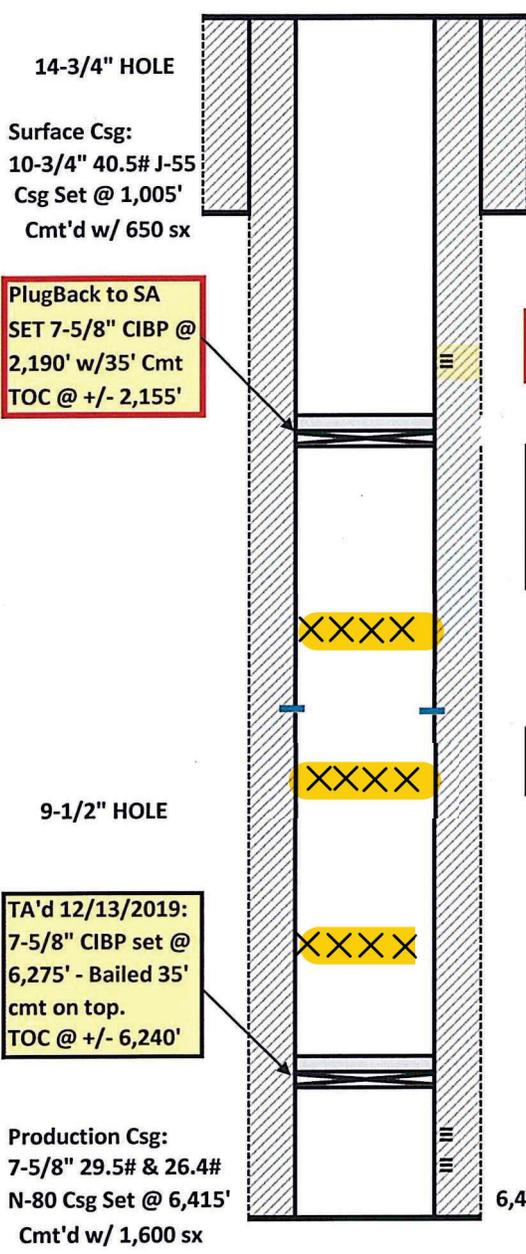
HPS: 09/15/2020

# SOLIS PARTNERS, LLC

## WELLBORE DIAGRAM

Lease/Well No.: **PATHFINDER AFT STATE #010** 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** Drig Stopped: **10/24/1990**  
 Completed: **11/9/1990**

### ROTARY RIG



TOPS	DEPTH, ft
TOC @ Surface	
SAN ANDRES	1,354
GLORIETTA	2,600
YESO	2,683
ABO	4,850
WOLFCAMP	5,583
PENN Clastic	6,180
CISCO	6,058
FUSSELMAN	6,295

PERFS:	ZONE	SPF - # Holes	DATE
1,958' - 2,095' (OA)	SAN ANDRES	57' 2 spf - 114 holes	NEW PERFS

TOC @ Surface  
 STAGE 2: TOC above  
 DV Tool - Circ'd  
 10 sx to Surface

**AFTER WORKOVER  
 SAN ANDRES COMPLETION  
 1,958'-2,095': 57' 2spf - 114 perfs**

DV Tool @ 3,948'  
 STAGE 1: TOC @ DV Tool  
 Circ'd 100 sx to Surface

- Spot 25 sx Cmt @ 2650' - 2550'. T of Glorietta
- Spot 25 sx Cmt @ 4900 - 4800'. T of Abo
- Spot 25 sx Cmt @ 5633' - 5533'. T of Wcmp

PERFS:	ZONE	SPF - # Holes	DATE
6350'-6560'	FUSSELMAN	11' 4 spf - 44 holes	03/11/01
6376'-6384'	FUSSELMAN	8' 4 spf - 32 holes	11/02/90
<b>TOTALS ==&gt; 19' --- 76 holes</b>			

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

**PATHFINDER AFT STATE #010**

**WELL 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	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 (Spotted Before Perforating)						FLOWING 9/64" chk FTP = 510 psi	11/9/1990	220	120	0
8' @ 4 spf = 32 perfs // 62.5 gal/ft // 15.6 gal/perf															

GOR= 522 scf/stb

NO TESTS REPORTED

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	BOTH ZONES COMMINGLED AFTER 03/11/2001.											
6,350	6,360	(11') FUSSELMAN	3/11/2001	NO TESTS REPORTED											

NO TESTS REPORTED  
MAY-2001 PRODUCTION: 748 BOPM + 0 MCFM + 43,640 BWPM  
AVG.: 24 BOPD + 0 MCFD + 1,408 BWPD

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	<b>C-102</b>  Revised July 9, 2024 Submit Electronically via OCD Permitting
		Submittal Type: <input type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input checked="" type="checkbox"/> As Drilled

**WELL LOCATION INFORMATION**

API Number 30-005-62801	Pool Code 17640	Pool Name DIABLO, SAN ANDRES
Property Code 329356	Property Name PATHFINDER AFT STATE	Well Number 10
OGRID No. 330238	Operator Name SOLIS PARTNERS, LLC	Ground Level Elevation 3,827'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	21	10-S	27-E		660 FSL	2,310 FEL	33.4258	-104.1978	CHAVES

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	21	10-S	27-E		660 FSL	2,310 FEL	33.4258	-104.1978	CHAVES

Dedicated Acres 40	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

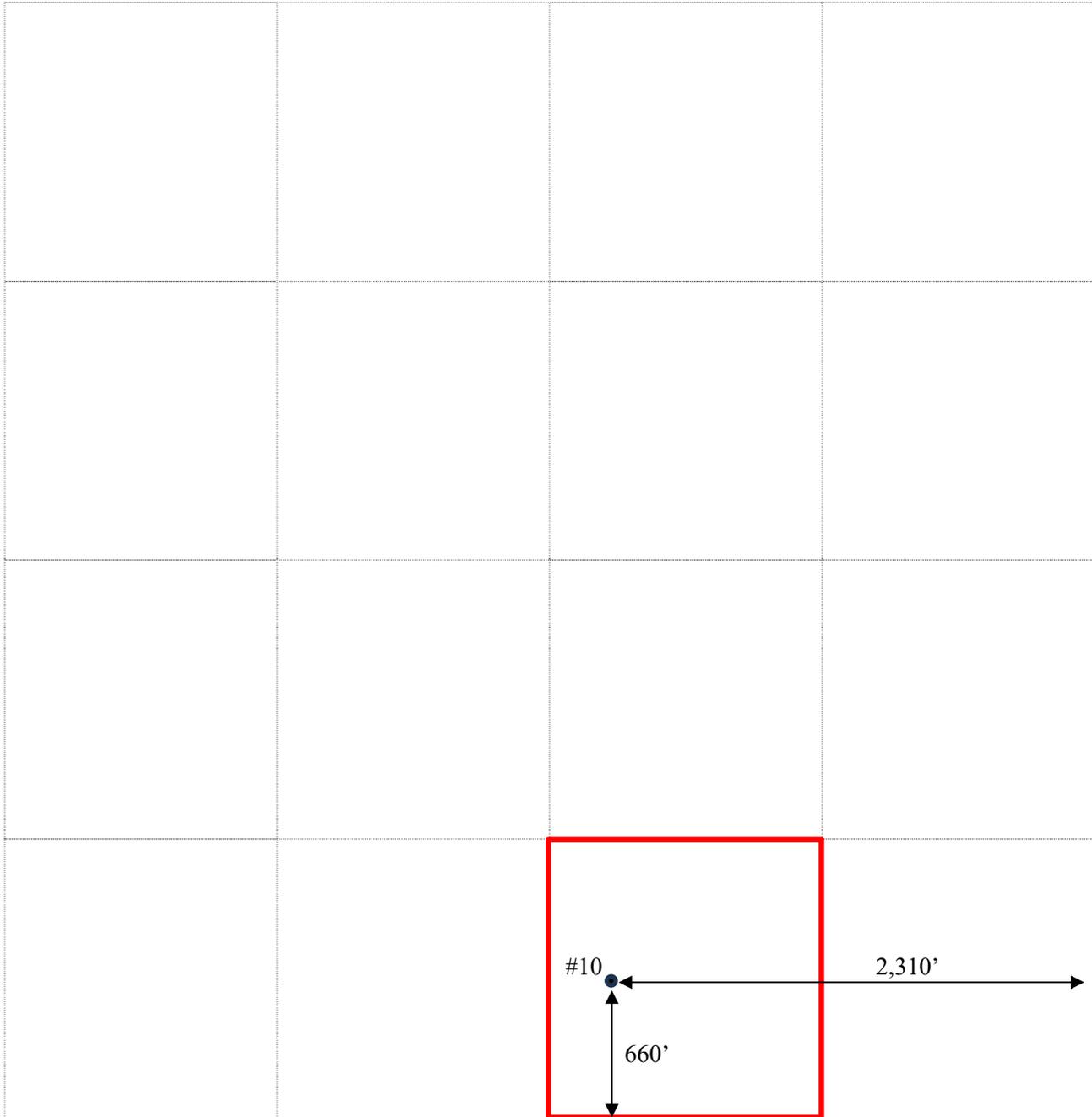
Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	---	-------------------------

<p><b>OPERATOR CERTIFICATIONS</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p> 08-21-2024          Signature Date</p> <p>Scott Parsons          Printed Name</p> <p>scott.parsons@solispartnersllc.com          Email Address</p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><i>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.</i></p> <p style="text-align: center;"><b>Original survey by Herschel Jones is on file with NMOCD.</b></p> <p>Signature and Seal of Professional Surveyor</p> <table border="1" style="width: 100%;"> <tr> <td>Certificate Number 3640</td> <td>Date of Survey 9-27-90</td> </tr> </table>	Certificate Number 3640	Date of Survey 9-27-90
Certificate Number 3640	Date of Survey 9-27-90		

*Note: 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.*

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



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

Submit Electronically  
 Via E-permitting

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Solis Partners, L.L.C. **OGRID:** 330238 **Date:** 09 / 03 / 2024

**II. Type:**  Original  Amendment due to  19.15.27.9.D(6)(a) NMAC  19.15.27.9.D(6)(b) NMAC  Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Pathfinder AFT State 10	30-005-62801	O-21-10s-27e	660 FSL & 2310 FEL	75	25	ZERO

**IV. Central Delivery Point Name:** IACX Roswell LLC (327122) plant in 21-10s-27e [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Pathfinder AFT State 10	30-005-62801	10-1-24	10-5-24	10-10-24	10-15-24	10-20-24

**VI. Separation Equipment:**  Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:**  Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:**  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan**  
**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  will  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator  does  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**If Operator checks this box, Operator will select one of the following:**

**Well Shut-In.**  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	Brian Wood
Title:	Consultant
E-mail Address:	brian@permitswest.com
Date:	9-3-24
Phone:	505 466-8120
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

## VI. SEPARATION EQUIPMENT

No new equipment is planned. Well already has a ¼ mile pipeline that runs to gas purchaser IACX Roswell, LLC in the same Section 21.

## VII. Operational Practices

### NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

1. Solis Partners, L. L. C. (Solis) will comply with NMAC 19.15.27.8. Venting & flaring of gas during drilling, completion, or production that constitutes waste as defined in 19.15.2 is banned.

### NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

1. Solis will capture or combust gas if technically feasible during drilling operations using best industry practices.
2. A flare stack with a 100% capacity for expected volume will be set on the pad  $\geq 100$  feet from the nearest well head and storage tank.
3. In an emergency, Solis will vent gas in order to avoid substantial impact. SOLIS will report vented or flared gas to the NMOCD.

### NMAC 19.15.27.8 (C) Venting & Flaring During Completion or Recompletion

1. Facilities will be built and ready from the first day of flowback
2. Test separator will be properly separate gas and liquids. Temporary test separator will be used initially to process volumes. In addition, separator will be tied into flowback tanks which will be tied into the gas processing equipment for sale down a pipeline.
3. Should the facility not be ready to process gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or a temporary flare to manage all gas. This flare would meet the following requirements:
  - a) An appropriately sized flare stack with an automatic igniter
  - b) Solis analyzes gas samples twice a week
  - c) Solis flows the gas into a gathering line as soon as the pipeline specifications are met
  - d) Solis provides the NMOCD with pipeline specifications and natural gas data.

### NMAC 19.15.27.8 (D) Venting & Flaring During Production

Solis will not vent or flare natural gas except:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided

- a) Solis does not vent after the well achieves a stabilized rate and pressure
  - b) Solis will be on-site while unloading liquids by manual purging and take all reasonable actions to achieve a stabilized rate and pressure as soon as possible
  - c) Solis will optimize the system to minimize gas venting if the well is equipped with a plunger lift or auto control system
  - d) Best management practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided
    - a) Solis receives approval from the NMOCD
    - b) Solis stays in compliance with NMOCD gas capture requirements
    - c) Solis submits an updated C-129 form to the NMOCD
4. During the following activities unless prohibited
    - a) Gauging or sampling a storage tank or low-pressure production vessel
    - b) Loading out liquids from a storage tank
    - c) Repair and maintenance
    - d) Normal operation of a gas-activated pneumatic controller or pump
    - e) Normal operation of a storage tank but not including venting from a thief hatch
    - f) Normal operation of dehydration units
    - g) Normal operations of compressors, engines, turbines, valves, flanges, & connectors
    - h) During a Braden head, packer leak test, or production test lasting <24 hours
    - i) When natural gas does not meet the gathering line specifications
    - j) Commissioning of lines, equipment, or facilities only for as long as necessary to purge introduced impurities.

#### NMAC 19.15.27.8 (E) Performance Standards

1. Solis used a safety factor to design the separation and storage equipment. The equipment will be routed to a vapor recovery system and uses a flare as back up for startup, shutdown, maintenance, or malfunction of the VRU system.
2. Solis will install a flare that will handle the full facility vapor volume in case the VRU fails. It will have an auto-ignition system.
3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
  - a) Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
  - b) Previously installed flare stacks will be retrofitted within 18 months of May 25, 2021, with an automatic ignitor, continuous pilot, or technology that alerts SOLIS to flare malfunction.
  - c) Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if at a well or facility with an average production of  $\leq 60$  Mcfd of natural gas.
  - d) Flare stacks will be located >100 feet from well head and storage tanks and securely anchored.

4. Solis will conduct an audio/visual/olfactory inspection on all components for leaks and defects every week.
5. Solis will make and keep records of AVO inspections available to the NMOCD for at least 5 years.
6. Solis may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
7. Facilities will be designed to minimize waste.
8. Solis will resolve emergencies as promptly as possible.

NMAC 19.15.27.8 (F) Measuring or Estimating Vented & Flared Natural Gas

1. Solis will have meters on both the low pressure and high-pressure sides of the flares. Volumes will be recorded in the SCADA system.
2. Solis will install equipment to measure the volume of flared natural gas that has an average production of  $\geq 60$  Mcfd.
3. Solis' measuring equipment will conform to industry standards.
4. Measurement system will be designed such that it cannot be bypassed except for inspections and servicing the meters.
5. Solis will estimate the volume of vented or flared gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Solis will estimate the volume of vented and flared gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
7. Solis will install measuring equipment whenever the NMOCD determines that metering is necessary.

### VIII. Best Management Practices

Solis Partners, L. L. C. will minimize venting during maintenance by:

1. Designing and operating system to route storage tank and process equipment emissions to the VRU. If the VRU is not operable, then vapors will be routed to the flare.
2. Scheduling maintenance for multiple tasks to minimize the need for blowdowns.
3. After completion of maintenance, gas will be flared until it meets pipeline specifications.

Solis Partners, LLC respectfully seeks approval to remediate well from TA status to produce from San Adres Formation @ 1,958' - 2,095'.

**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 Adres:
  - 1,958'-2,095' (57' @ 2 spf, 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 production.
- RDMO workover rig.
- Test well

Spot 25 sx Cmt @ 5,633'-5,533'. T of Wcmp

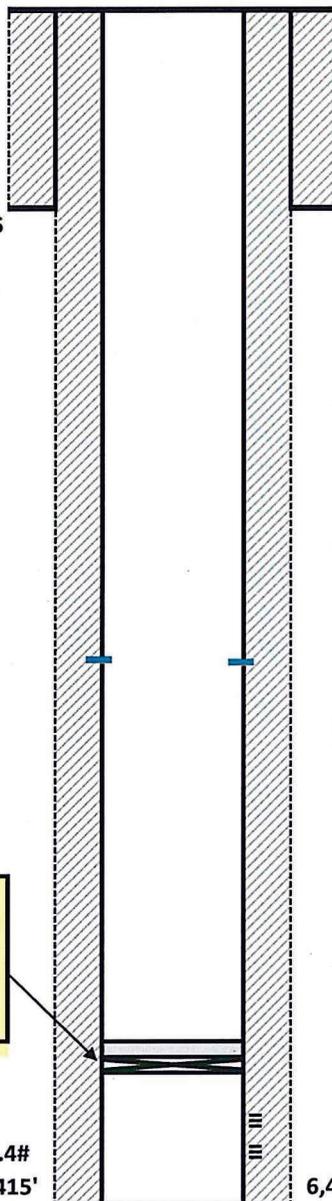
Spot 25 sx Cmt @ 4,900'-4,800'. T of Abo

Spot 25 sx Cmt @ 2,650'-2,550'. T of Glorietta

# 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:



TOC @ Surface  
Circ'd 55sx cmt

TOPS	DEPTH, ft
SAN ANDRES	1,354
GLORIETTA	2,600
YESO	2,683
ABO	4,850
WOLFCAMP	5,583
PENN Clastic	6,180
CISCO	6,058
FUSSELMAN	6,295

TOC @ Surface  
STAGE 2: TOC above  
DV Tool - Circ'd  
10 sx to Surface

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

DV Tool @ 3,948'  
STAGE 1: TOC @ DV Tool  
Circ'd 100 sx to Surface

TA'd 12/13/2019:  
7-5/8" CIBP set @  
6,275' - Bailed 35'  
cmt on top.  
TOC @ +/- 6,240'

PERFS:	ZONE	SPF - # Holes	DATE
6350'-6560'	FUSSELMAN	11' 4 spf - 44 holes	03/11/01
6376'-6384'	FUSSELMAN	8' 4 spf - 32 holes	11/02/90
<b>TOTALS ==&gt;</b>		<b>19' --- 76 holes</b>	

Production Csg:  
7-5/8" 29.5# & 26.4#  
N-80 Csg Set @ 6,415'  
Cmt'd w/ 1,600 sx

6,415' Csg  
6,415' TD / 6,368' PBTD

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

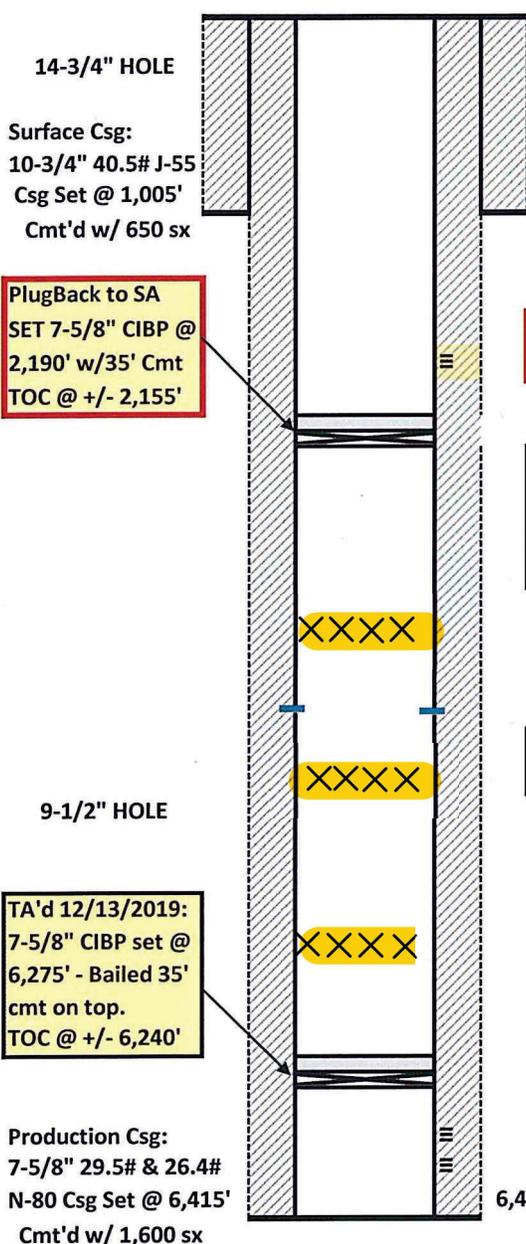
HPS: 09/15/2020

# SOLIS PARTNERS, LLC

## WELLBORE DIAGRAM

Lease/Well No.: **PATHFINDER AFT STATE #010** ELEVATION, GL: **3,827 ft**  
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### ROTARY RIG



TOC @ Surface	TOPS	DEPTH, ft
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	GLORIETTA	2,600
	YESO	2,683
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	WOLFCAMP	5,583
	PENN Clastic	6,180
	CISCO	6,058
	FUSSELMAN	6,295

PlugBack to SA  
 SET 7-5/8" CIBP @  
 2,190' w/35' Cmt  
 TOC @ +/- 2,155'

PERFS:	ZONE	SPF - # Holes	DATE
1,958' - 2,095' (OA)	SAN ANDRES	57' 2 spf - 114 holes	NEW PERFS

TOC @ Surface  
 STAGE 2: TOC above  
 DV Tool - Circ'd  
 10 sx to Surface

**AFTER WORKOVER**  
**SAN ANDRES COMPLETION**  
 1,958'-2,095': 57' 2spf - 114 perfs

DV Tool @ 3,948'  
 STAGE 1: TOC @ DV Tool  
 Circ'd 100 sx to Surface

- Spot 25 sx Cmt @ 2650' - 2550'. T of Glorietta
- Spot 25 sx Cmt @ 4900 - 4800'. T of Abo
- Spot 25 sx Cmt @ 5633' - 5533'. T of Wcmp

TA'd 12/13/2019:  
 7-5/8" CIBP set @  
 6,275' - Bailed 35'  
 cmt on top.  
 TOC @ +/- 6,240'

PERFS:	ZONE	SPF - # Holes	DATE
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GAS	316.156	MMCF
WATER	4,144.164	MBW
INJECT.	----	MBW

HPS: 09/15/2020

**PATHFINDER AFT STATE #010**

**WELL 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	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 (Spotted Before Perforing)						FLOWING 9/64" chk FTP = 510 psi	11/9/1990	220	120	0
8' @ 4 spf = 32 perfs // 62.5 gal/ft // 15.6 gal/perf															

NO TESTS REPORTED

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	BOTH ZONES COMMINGLED AFTER 03/11/2001.											
6,350	6,360	(11') FUSSELMAN	3/11/2001	NO TESTS REPORTED											

NO TESTS REPORTED  
MAY-2001 PRODUCTION: 748 BOPM + 0 MCFM + 43,640 BWPM  
AVG.: 24 BOPD + 0 MCFD + 1,408 BWPD

**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 Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
 Action 379803

**CONDITIONS**

Operator: Solis Partners, L.L.C. 4501 SANTA ROSA DR MIDLAND, TX 79707	OGRID: 330238
	Action Number: 379803
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

**CONDITIONS**

Created By	Condition	Condition Date
ward.rikala	Please notify OCD when work begins. Please submit completion details following well re-completion.	9/11/2024