

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

Form C-101
Revised July 18, 2013

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

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

7. 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

8. 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

9. Pool Information

Pool Name DIABLO; SAN ANDRES	Pool Code 17640
---------------------------------	--------------------

Additional Well Information

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

21. 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 & cmt data)					STAGE 2 - 950 sx	SURFACE (CIIRC 10 sx)
					DV TOOL @ 3,948'	

Casing/Cement Program: Additional Comments

--

22. Proposed Blowout Prevention Program

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

²³ 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 <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , 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 PBDT 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. PBDT = 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

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 & 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

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

¹⁰ Surface Location

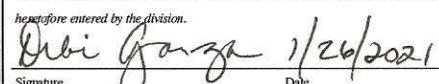
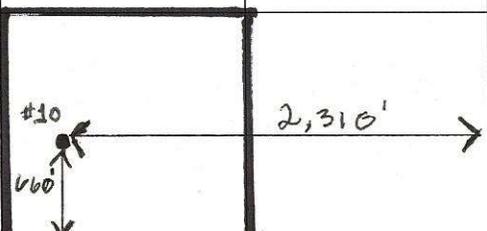
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	21	10-S	27-E		660	SOUTH	2,310	EAST	CHAVEZ

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	21	10-S	27-E		660	SOUTH	2,310	EAST	CHAVEZ

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

16	¹⁷ OPERATOR CERTIFICATION			
	<p><i>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.</i></p>			
	 Signature		1/26/2021 Date	
	Debi Garza Printed Name debi.garza@solispartnersllc.com E-mail Address			
¹⁸ SURVEYOR CERTIFICATION				
<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>				
Date of Survey Signature and Seal of Professional Surveyor:				
Certificate Number				
				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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, recomplete 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

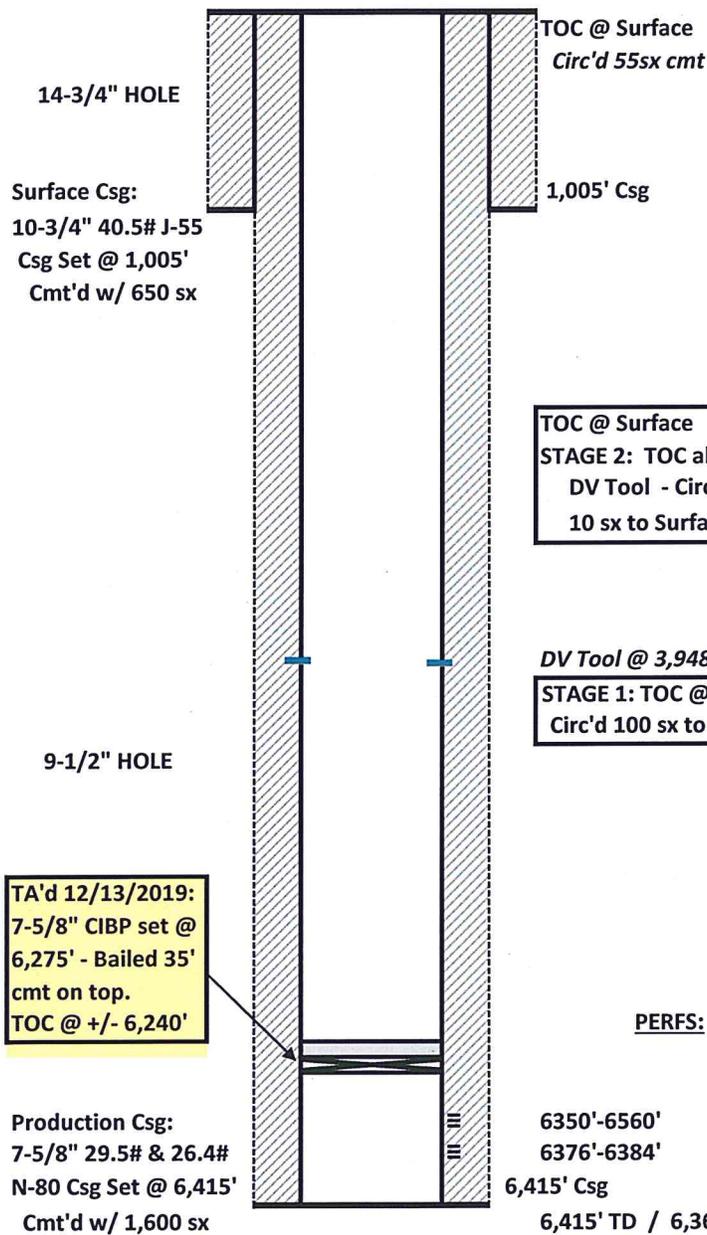
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- 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:



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
	TOTALS ==>	19' --- 76 holes	

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

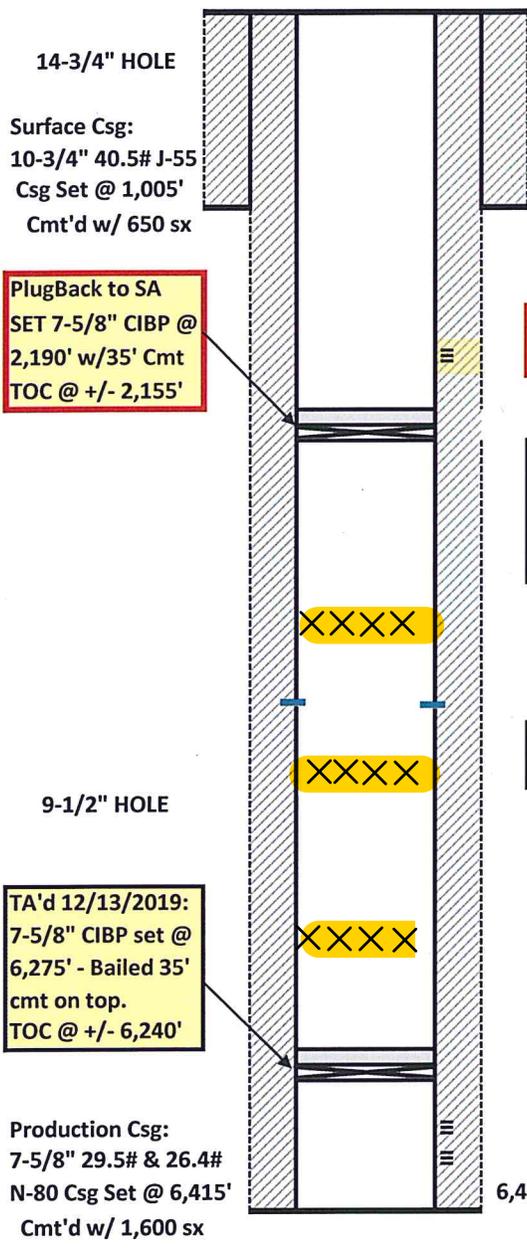
HPS: 09/15/2020

SOLIS PARTNERS, LLC

WELLBORE DIAGRAM

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



TOC @ Surface	TOPS	DEPTH, ft
Circ'd 55sx cmt	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 Wcwp

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
TOTALS ==>		19' --- 76 holes	

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 PERFORMANCE, ACID JOB, FRAC JOB, & WELL TEST DETAILS

TOP	BOTTOM	ZONE	ACID JOB(S)			FRAC JOB(S)			INITIAL POTENTIAL TEST					
			DATE	ACID GALS	ACID TYPE	DATE	FRAC FLUID	FLUID TYPE	SAND LBS	SAND SIZE	REMARKS	TEST DATE	OIL BOPD	GAS MCFD
6,376	6,384	(8') FUSSELMAN	11/2/1990	500	20% NEFE HCl (Spotted Before Perfring)						11/9/1990	220	120	0
<p>8' @ 4 spf = 32 perfs // 62.5 gal/ft // 15.6 gal/perf</p>														
6,350	6,360	(11') FUSSELMAN	3/11/2001	500	20% NEFE HCl									
<p>11' @ 4 spf = 44 perfs // 45.5 gal/ft // 11.4 gal/perf</p>														
NO TESTS REPORTED														
6,376	6,384	(8') FUSSELMAN	11/2/1990											
<p>BOTH ZONES COMMINGLED AFTER 03/11/2001.</p>														
6,350	6,360	(11') FUSSELMAN	3/11/2001											
<p>NO TESTS REPORTED MAY-2001 PRODUCTION: 748 BOPM + 0 MCFM + 43,640 BWPM AVG.: 24 BOPD + 0 MCFD + 1,408 BWPD</p>														

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

COMMENTS

Action 26806

COMMENTS

Operator:				OGRID:	Action Number:	Action Type:
	SOLIS PARTNERS, L.L.C.	P.O. Box 5790	Midland, TX79704	330238	26806	APD

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/6/2021	05/06/2021

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 26806

CONDITIONS OF APPROVAL

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