

DATE IN 8/24/2019	SUSPENSE	ENGINEER M AM	LOGGED IN	TYPE DHC	APPROVAL PMAM/9/14/19 295125
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



SEP 20 2019 PM02:45

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Irene Trujillo
Print or Type Name

Irene Trujillo
Signature

Operations Tech
Title

5/17/19
Date

irene@3forksres.com
e-mail Address

District I
1625 N. French Drive, 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, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Three Forks Resources, LLC 4080 Youngfield St., Wheat Ridge, CO 80033
Operator Address

M.J. Harvey 16 1 H-116-175-34E Lea
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 258660 Property Code 21477 API No. 30-025-34111 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Vacuum; Grayburg-San Andres		Vacuum; Abo North
Pool Code	62180		61760
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	4763-4776		8875-8905
Method of Production (Flowing or Artificial Lift)	AL		AL
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	310		190
Oil Gravity or Gas BTU (Degree API or Gas BTU)	28.9		33.2
Producing, Shut-In or New Zone	PR		PR
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 4/30/19 Rates: O - 1.4 bbls/d W - 1.7 bbls/d	Date: Rates:	Date: 4/30/18 Rates: O - 5 bbls/d W - .5 bbls/d
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 22 % 0 %	Oil Gas % %	Oil Gas 78 % 0 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: _____

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE Irene Trujillo TITLE Operations Tech DATE 5/17/18

TYPE OR PRINT NAME Irene Trujillo TELEPHONE NO. (303) 318-0717

E-MAIL ADDRESS iraxe@3forksres.com

MAR 19 2018 PM 03:21

District I
1625 N. French Dr. Hobbs, NM 88240
Phone (505) 393-6161 Fax (505) 393-0720
District II
811 S. First St. Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 344-6178 Fax (505) 344-6170
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

HOBBS OCD
MAR 26 2018
RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34111	² Pool Code 62180	³ Pool Name VACUUM ; SAN ANDREAS San Andreas
⁴ Property Code 21477	⁵ Property Name M.J. Harvey "16"	⁶ Well Number 1
⁷ OGRID No. 258660	⁸ Operator Name Three Forks Resources, LLC	⁹ Elevation 4065

¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	16	17S	34E		2121	North	519	East	Lea

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 80	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ 	¹⁷ OPERATOR CERTIFICATION 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.	
	Irene Trujillo 3/13/18 Signature Date	
	Irene Trujillo Printed Name	
	irene@3forksres.com E-mail Address	
¹⁸ SURVEYOR CERTIFICATION 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.	Date of Survey Signature and Seal of Professional Surveyor	
	Certificate Number	

District I
PO Box 1988, Hobbs, NM 88241-1988
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bravo Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34111	² Pool Code 61760	³ Pool Name North Vacuum Abo
⁴ Property Code 21477	⁵ Property Name M. J. Harvey 7"16"	⁶ Well Number 1
⁷ OGRID No. 015262	⁸ Operator Name Morexco, Inc.	⁹ Elevation 4065

¹⁰ Surface Location

UL or lot no. H	Section 16	Township 17 S	Range 34 E	Lot Ida	Feet from the 2121	North/South line North	Feet from the 519	East/West line East	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 80	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶										<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>[Signature]</i> Signature DONALD G. BECKER Printed Name PRES. Title 8/22/97 Date</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>August 12, 1997 Date of Survey R. PATTON Signature and Seal of Professional Surveyor. Certificate Number 8112</p>

M.J. Harvey 16 #1 Commingled Allocation

Current production from Vacuum; Grayburg-San Andres is 1.4 bbls/day. Production from the Vacuum; Abo North was 5.0 bbls/day. Allocation between the two zones will be based on 6.4 bbls/day. Dividing the total production into each wells individual production the allocation percentage for the San Andres would be 22% and 78% to the Abo North.

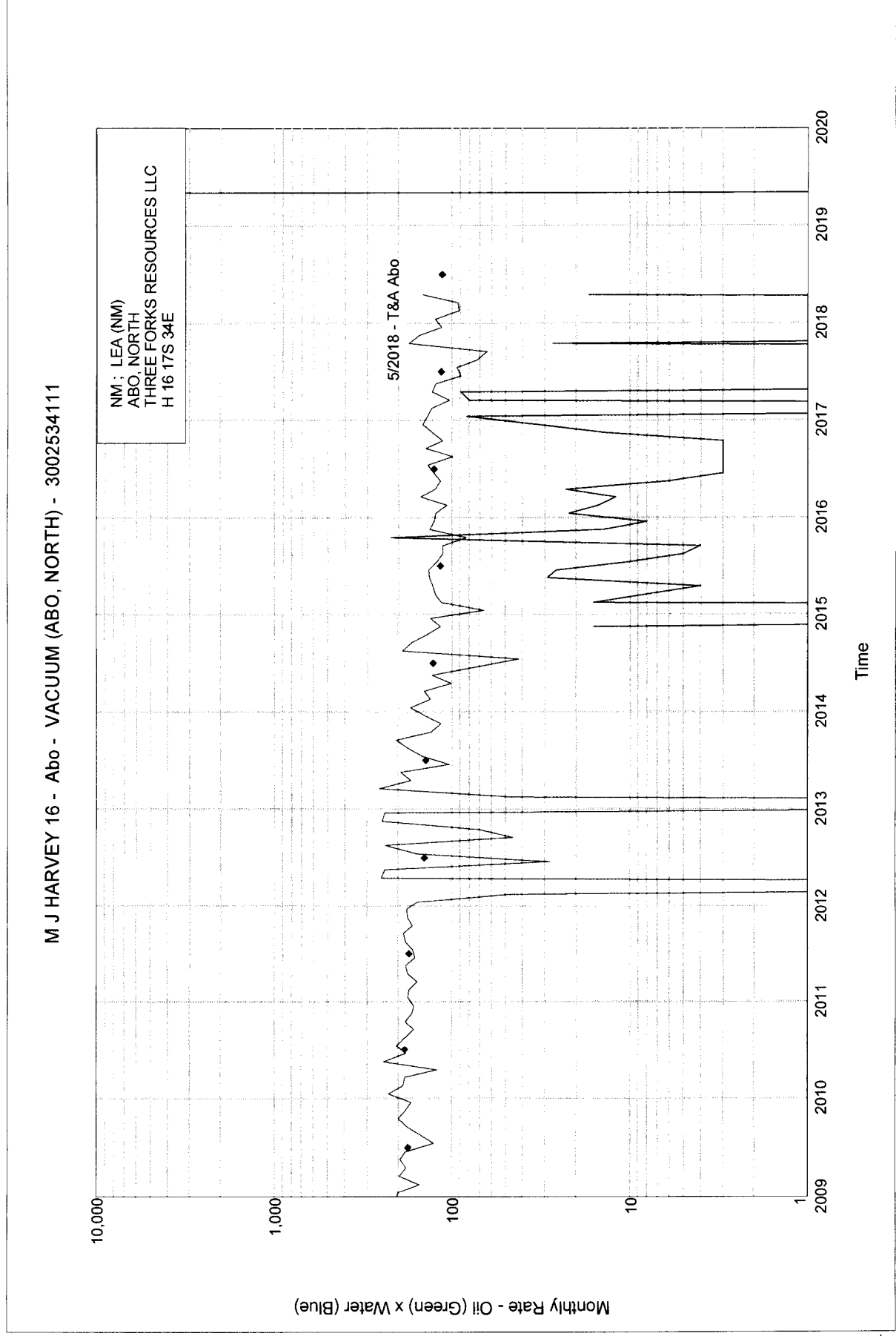
Rate/Time Graph

Lease Name: M J HARVEY 16 (Abo)
County, ST: LEA (NM), NM
Location: H 16 17S 34E

Project: \\2ft\ptools\3FRKS Resources PT database\93 3Frks Resources.mdb

Operator: THREE FORKS RESOURCES LLC
Field Name: VACUUM (ABO, NORTH)

Date: 4/10/2019
Time: 11:52 AM



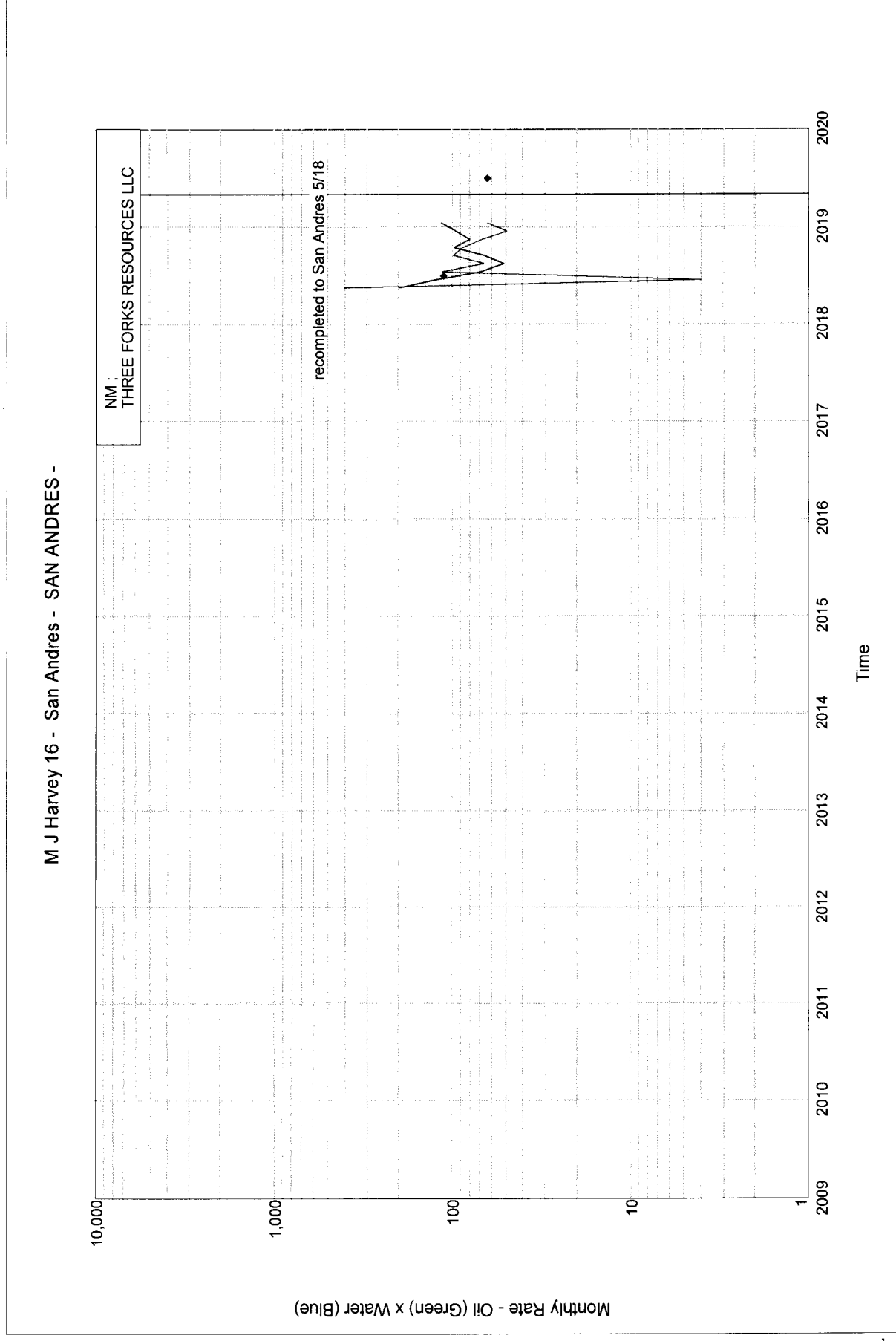
Rate/Time Graph

Lease Name: M J Harvey 16 (San Andres)
County, ST.: NM
Location: 0-0-0

Project: \\2f1ptools\3FRKS Resources PT database\V93 3Frks Resources.mdb

Operator: THREE FORKS RESOURCES LLC
Field Name: SAN ANDRES

Date: 4/10/2019
Time: 11:52 AM



M.J. Harvey 16 #1 Commingled Allocation

	BOPD Allocation	
Vacuum; Abo North	5.0	0.78125
Vacuum; Grayburg-SanAndrs	<u>1.4</u>	<u>0.21875</u>
	6.4	1.00000

Lease HARVEY Field: TANK 111261 TANK 111262 Bbl/in State: NM County: Lea Date: Apr-18

	FT	IN	FT	IN	FT	IN	FT	IN	TOTAL STOCK	LACT HOURING RUN LAST 14	TODAY'S SALES	MONTHLY SALES	DAILY PROD	WEDNESDAY	MONTHLY PROD
1			1	2.50	11	6.00			176.90				6.96	0	6.96
2			1	2.50	11	11.00			182.70				5.80	0	12.76
3			1	2.50	12	3.00			187.34				4.64	0	17.40
4			1	2.50	12	7.00			191.98				4.64	0	22.04
5			1	2.50	12	11.00			196.62				4.64	0	26.68
6			1	2.50	13	4.00			202.42				5.80	0	32.48
7			1	7.00	13	4.00			207.64				5.22	0	37.70
8			2	1.00	13	4.00			214.60				6.96	0	44.66
9			2	7.00	13	4.00			221.56				6.96	0	51.62
10			3	0.00	13	4.00			227.36				5.80	0	57.42
11			3	5.00	13	4.00			233.16				5.80	0	63.22
12			3	10.00	13	4.00			238.96				5.80	0	69.02
13			4	1.00	13	4.00			242.44				3.48	0	72.50
14			4	5.00	13	4.00			247.08				4.64	0	77.14
15			4	10.00	13	4.00			252.88				5.80	0	82.94
16			5	1.00	13	4.00			256.36				3.48	0	86.42
17			5	5.00	13	4.00			261.00				4.64	0	91.06
18			5	9.00	13	4.00			265.64				4.64	0	95.70
19			6	1.00	13	4.00			270.28				4.64	0	100.34
20			6	5.00	13	4.00			274.92				4.64	0	104.98
21			6	8.00	13	4.00			278.40				3.48	0	108.46
22			6	11.00	1	3.00			113.68	164.01			0.00	0	108.46
23			7	3.00	1	3.00			118.32				4.64	0	113.10
24			7	7.00	1	3.00			122.96				4.64	0	117.74
25			7	11.00	1	3.00			127.60				4.64	0	122.38
26			8	3.00	1	3.00			132.24				4.64	0	127.02
27			8	7.00	1	3.00			136.88				4.64	6	131.66
28			8	11.00	1	3.00			141.52				4.64	8	136.30
29			9	3.00	1	3.00			146.16				4.64	3	140.94
30			9	7.00	1	3.00			150.80				4.64	0	145.58
31			9	7.00	1	3.00			150.80				0.00	0	145.58
Total									6171.20		164.01		145.58	17	

oil haul refused due to load line not being outside the fenced in area. Cress to fix tomorrow

Monthly Production

144.87

Opening Stock

169.04

Monthly Sales

164.01

Closing Stock

150.80

Lease	HARVEY				Field:				TANK 111261				TANK 111262				Bbl/in	State: NM	County: Lea				Date:	April 19
	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	TOTAL STOCK	LACT READING/ RUN TICKET #	TODAY'S SALES	MONTHLY SALES	DAILY PROD	MCF/DAY	WATERDAY	MONTHLY PROD
																	1.16				1.16			
1					4	9.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	99.76				1.16		0	1.16
2					4	10.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	100.92				1.16		0	2.32
3					4	11.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	102.08				1.16		1	3.48
4					5	0.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	103.24				1.16		2	4.64
5					5	2.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	105.56				2.32		2	6.96
6					5	3.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	106.72				1.16		2	8.12
7					5	4.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	107.88				1.16		3	9.28
8					5	5.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	109.04				1.16		2	10.44
9					5	6.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	110.20				1.16		2	11.60
10					5	7.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	111.36				1.16		2	12.76
11					5	9.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	113.68				2.32		2	15.08
12					5	10.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	114.84				1.16		3	16.24
13					5	11.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	116.00				1.16		2	17.40
14					6	1.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	118.32				2.32		2	19.72
15					6	2.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	119.48				1.16		2	20.88
16					6	3.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	120.64				1.16		3	22.04
17					6	4.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	121.80				1.16		2	23.20
18					6	5.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	122.96				1.16		2	24.36
19					6	6.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	124.12				1.16		3	25.52
20					6	7.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	125.28				1.16		0	26.68
21					6	8.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	126.44				1.16		2	27.84
22					6	9.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	127.60				1.16		0	29.00
23					6	10.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	128.76				1.16		2	30.16
24					6	11.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	129.92				1.16		2	31.32
25					7	0.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	131.08				1.16		2	32.48
26					7	1.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	132.24				1.16		3	33.64
27					7	2.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	133.40				1.16		2	34.80
28					7	4.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	135.72				2.32		0	37.12
29					7	6.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	138.04				2.32		0	39.44
30					7	8.00	2	5.00	2	5.00	2	5.00	2	5.00	2	5.00	140.36				2.32		2	41.76
31																	0.00				0.00		0	41.76
Total																	3577.44				41.76		52	
Monthly Production																								
+																								
Opening Stock																								
-																								
Monthly Sales																								
=																								
Closing Stock																								

COPY



**NEW MEXICO
STATE
LAND OFFICE**

**APPLICATION FOR
COMMINGLING AND OFF-LEASE STORAGE
ON STATE TRUST LANDS**

This application form is required for all commingling applications requiring approval by the Commissioner of Public Lands.

Applicant: Three Forks Resources, LLC OGRID #: 258660
Well Name: M.J. Harvey 16 #1 API #: 30-025-34111
Pool: Vacuum; Grayburg-San Andres

OPERATOR NAME: Three Forks Resources, LLC
OPERATOR ADDRESS: 4080 Youngfield Street, Wheat Ridge, CO 80033

APPLICATION REQUIREMENTS – SUBMIT:

1. New Mexico Oil Conservation Division (NMOCD) application packet (or equivalent information if no application is required by NMOCD),
2. Commingling application fee of \$150.

CERTIFICATION: To the best of my knowledge,

- All business leases and rights-of-way necessary for conducting the proposed operation on State Trust lands have been applied for or obtained,
- The information submitted with this application is **accurate** and **complete**, and
- No loss will accrue to the state of New Mexico as a result of the proposed operation.

I also understand that **no action** will be taken on this application until the required information and fee are submitted to the State Land Office.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Irene Trujillo
Print or Type Name

Irene Trujillo
Signature

5/17/19
Date

303-318-0717
Phone Number

irene@3forksres.com
e-mail Address

Submit application to:

Commissioner of Public Lands
Attn: Commingling Manager
PO Box 1148
Santa Fe, NM 87504-1148

Questions?

Contact the Commingling Manager:
505.827.5791

Upon approval, the requesting organization will receive an acknowledgment letter from the Commissioner of Public Lands.

THREE FORKS RESOURCES, LLC

CHECK NO.

Reference	Inv date	Invoice No.	Invoice Amt	Prior Pmt	Discount	Amount
1810-AP-5	10/10/18	10102018	150.00	0.00		150.00
Commingling Filing Fee						

Vendor

Ck date

2547 NEW MEXICO COMMR PUBLIC LANDS

05/17/19

150.00

TO REORDER, CALL YOUR LOCAL SAFEGUARD DISTRIBUTOR AT 303-988-4151

ORIGINAL DOCUMENT PRINTED ON CHEMICAL REACTIVE PAPER WITH MICROPRINTED BORDER



555 17TH ST., STE. 975
DENVER, CO 80202
PH: (303) 318-0717

COLORADO STATE BANK AND TRUST, N.A.
1600 BROADWAY
DENVER, CO 80202

23-60/1020

DATE
05/17/19

CONTROL NUMBER
28431

36324

PAY One hundred fifty dollars and 00 cents

TO THE
ORDER
OF

NEW MEXICO COMMR PUBLIC LANDS
NEW MEXICO STATE LAND OFFICE
PO BOX 1148
SANTA FE, NM 87504-2308

AMOUNT
\$*****150.00

[Signature]

THIS DOCUMENT CONTAINS HEAT SENSITIVE INK. TOUCH OR PRESS HERE - RED IMAGE DISAPPEARS WITH HEAT.

036324 1020006071 8091997622

Well Schematic and History

Lease: M J Harvey 16 Well: 1 Field: Vacuum
 Location: 2121 From North Line and 360 519 From EAST Line
Unit H, Section 16 - T17S - R34E County: Lea State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4065
 DF: _____
 KB: 4077.5

DATE	INITIAL COMPLETION DATA:
1997	PERF ABO 8875'-8905' (2 shot/foot)
2018	Perf San Andreas 4763'-4776' 4 SPF

SURF CSG
 13 3/8" 32# @ 401'

TOC @ surface by circ.

Commingle well bore Abo and SA

INTER CSG
 8 5/8" 32 & 24# @ 3150'

TOC @ circulated to surface

TOC long string at 3110'

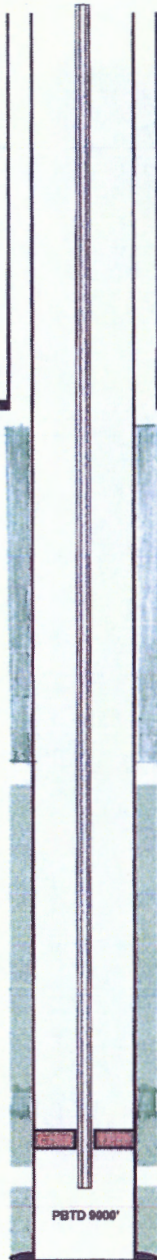
San Andreas perf 4763'-4776' 4 SPF

147 joints 2 7/8" tbg, TAC and 5 jts tubing

Abo perf 8875'-8905'

260 jts 2 7/8" tubing, TAC, 5 joints tubing
 rods 1", 7/8" and 3/4"

PROD CSG
 5 1/2" 17# @ 9050'
 Cmt'd w/ 1100 axs
 TOC @ 3110' by bond log



PREPARED BY: JNC

Revised: 6/8/2019

Well Schematic and History

Lease: M J Harvey 16 Well: 519 Field: Vacuum
 Location: 2121 From North Line and 360 519 from EAST Line
 Unit H. Section 16 - T17S - R34E County: Lea State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4085
 DF: _____
 KB: 4077.5

DATE	INITIAL COMPLETION DATA:
1997	PERF ABO 8875-8905' (2 shot/foot)
2018	Recomplete to San Andreas 4763'-76' 4 SPF

SURF CSG
 13 3/8" 32# @ 401'

TOC @ surface by circ.

INTER CSG
 8 5/8" 32 & 24# @ 3150'

TOC @ circulated to surface

TOC long string at 3110'

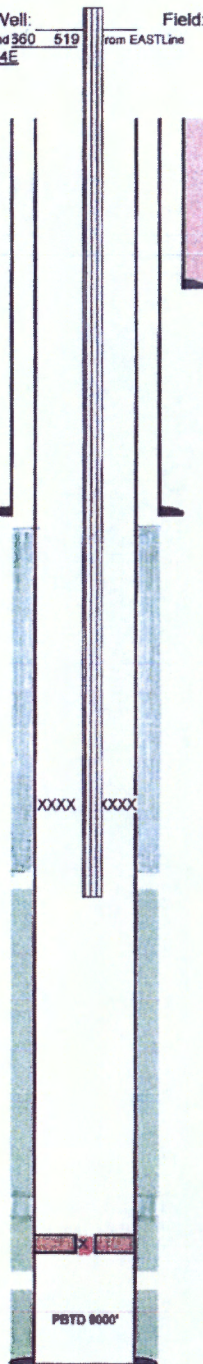
San Andreas perms 4763'-4776' 4 SPF

147 joints 2 7/8" tbg, TAC and 5 jts tubing

Abo perms 8875'-8905'

Retrieval bridge plug at 8500

PROD CSG
 5 1/2" 17# @ 9050'
 Cm'd w/ 1100 axcs
 TOC @ 3110' by bond log



PREPARED BY: JNC

Revised: 6/9/2019

Well Schematic and History

Lease: M J Harvey 16 Well: 1 Field: Vacuum
 Location: 2121 From North Line and 360 519 From EAST Line
Unit H, Section 16 - T17S - R34E County: Lea State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4085
 DF: _____
 KB: 4077.5

DATE _____ INITIAL COMPLETION DATA: _____
1997 PERF ABO 8875-8905' (2 shot/foot)

SURF CSG
 13 3/8" 31# @ 401'

TOC @ surface by circ.

INTER CSG
 8 5/8" 32 & 24# @ 3150'

TOC @ circulated to surface

TOC long string at 3110'

279 joints of 2 7/8" tubing
 TA
 110 joints of 2 7/8" tubing

Abo perms 8875'-8905'

PROD CSG
 5 1/2" 17# @ 9060'
 Cmt'd w/ 1100 axs
 TOC @ 3110' by bond log.

PBTD 9000'

PREPARED BY: JNC

Revised: 5/6/2019

Well Schematic and History

Lease: M J Harvey 16 Well: 1 Field: Vacuum
 Location: 2121 From North Line and 360 519 From EAST Line
Unit H, Section 16 - T17S - R34E County: Lee State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4085
 DF: _____
 KB: 4077.5

DATE INITIAL COMPLETION DATA:

1997 PERF ABO 8875-8905' (2 shot/foot)
 2018 Perf San Andreas 4763'-4776' 4 SPF

SURF CSG
 13 3/8" 32# @ 401'

TOC @ surface by circ.

Commingled well bore Abo and SA

INTER CSG
 8 5/8" 32 & 24# @ 3150'

TOC @ circulated to surface

TOC long string at 3110'

San Andreas perf 4763'-4776' 4 SPF

147 joints 2 7/8" tbg, TAC and 5 jts tubing

Abo perf 8875'-8905'

280 jts 2 7/8" tubing, TAC, 5 joints tubing
 rods 1", 7/8" and 3/4"

PROD CSG
 5 1/2" 17# @ 9050'
 Cmt'd w/ 1100 axs
 TOC @ 3110' by bond log

PBTD 9900'

PREPARED BY: JNC

Revised: 5/9/2019

Well Schematic and History

Lease: M J Harvey 16 Well: 519 Field: Vacuum
 Location: 2121 From North Line and 360 519 from EAST Line
 Unit H, Section 16 - T17S - R34E County: Lea State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4065
 DF: _____
 KB: 4077.5

DATE	INITIAL COMPLETION DATA:
1997	PERF ABO 8875'-8905' (2 shot/foot)
2018	Recomplete to San Andreas 4763'-76' 4 SPF

SURF CSG
 13 3/8" 32# @ 401'

TOC @ surface by circ.

INTER CSG
 8 5/8" 32 & 24# @ 3150'

TOC @ circulated to surface

TOC long string at 3110'

San Andreas perfs 4763'-4776' 4 SPF

147 joints 2 7/8" tbg, TAC and 5 jts tubing

Abo perfs 8875'-8905'

Retrieval bridge plug at 8500

PROD CSG
 5 1/2" 17# @ 9050'
 Cmf'd w/ 1100 sxs
 TOC @ 3110' by bond log

PBTD 0000'

PREPARED BY: JNC

Revised: 8/9/2019

Well Schematic and History

Lease: M J Harvey 16 Well: 1 Field: Vacuum
 Location: 2121 From North Line and 300 519 From EAST Line
Unit H, Section 16 - T17S - R34E County: Lea State: New Mexico

API No.: 30-025-34111

Spud Date: 10/01/97
 Compl. Date: _____

GL: 4085
 DF: _____
 KB: 4077.5

DATE _____ INITIAL COMPLETION DATA: _____
1997 PERF ABO 8875-8905' (2 shot/foot)

SURF CSG
 13 3/8" 31# @ 401'

TOC @ surface by circ.

INTER CSG
 8 5/8" 32 & 24# @ 3150'

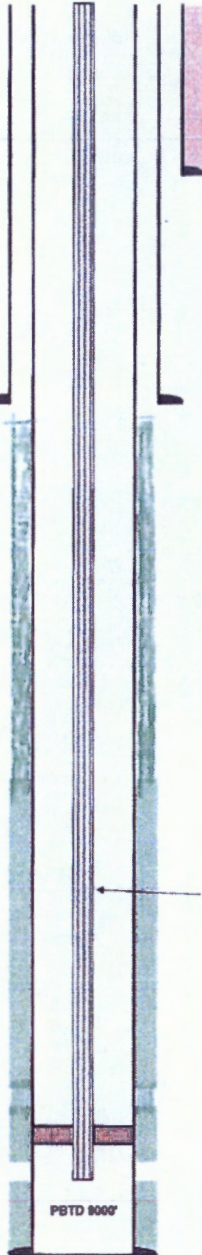
TOC @ circulated to surface

TOC long string at 3110'

279 joints of 2 7/8" tubing
 TA
 110 joints of 2 7/8" tubing

Abo perms 8875'-8905'

PROD CSG
 5 1/2" 17# @ 9050'
 Cmt'd w/ 1100 sxs
 TOC @ 3110' by bond log.



PREPARED BY: JNC

Revised: 6/6/2019

THREE FORKS RESOURCES, LLC
4080 Youngfield St.
Wheat Ridge, CO 80033
303-318-0717

Date: June 18, 2019

To: Three Forks Resources, LLC

From: Natalie Galyon, Landman
Three Forks Resources, LLC
4080 Youngfield St.
Wheat Ridge, CO 80033

Re: M.J. Harvey 16 #1
API # 30-025-34111
Application for Downhole Commingling -Vacuum; ABO North and Vacuum; Grayburg-San Andres
Lease VA-814 dated 2/1/1993
E/2 NE/4 of Section 16, T17S, R34E, Lea County, New Mexico

LANDMAN STATEMENT

I have performed a diligent search of the records, with respect to the Subject Lease, of the Lea County Clerk, Lea County Live and the New Mexico State Land Office (herein called "Sources") on behalf of Three Forks Resources, LLC from February 1, 1993 to June 17, 2019 at 5:00 P.M.

1. We assume no responsibility for matters legal in character, nor do we render an opinion as to title to the Subject Lease in question or any interest therein. This title research was performed for, delivered to and accepted by the addressee hereof upon express stipulation that Three Forks Resources, LLC and the undersigned Landmen assumes no liability or responsibility for errors and/or omissions in the research, records and reports contained herein. Any liability in association therewith is limited to the actual amounts paid to Three Forks Resources, LLC for the research and reports provided. This research and report is provided without Warranty or Guarantee as to the accuracy or completeness of any of the information or contents contained herein and without recourse against Three Forks Resources, LLC and/or any Landmen.
2. All working, royalty and overriding royalty interest are identical in all commingled zones

Respectfully Submitted:



Natalie Galyon
June 18, 2019