

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

State of New Mexico
Energy, Minerals & Natural Resources

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

APR 25 2016

Submit one copy to appropriate District Office

RECEIVED

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSFER

¹ Operator name and Address Apache Corporation 303 Veterans Airport Lane Suite 1000 Midland TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW 04/15/16
⁴ API Number 30-015-42902	⁵ Pool Name CEDAR LAKE; GLORIETA-YESO	⁶ Pool Code [96831]
⁷ Property Code 315935	⁸ Property Name CEDAR LAKE FEDERAL CA	⁹ Well Number #642H

II. 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
I	6	17S	31E		2065	SOUTH	200	EAST	EDDY COUNTY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	6	17S	31E		2073.6	SOUTH	332.5	EAST	EDDY COUNTY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 04/15/16	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G

IV. Well Completion Data

²¹ Spud Date 07/15/2015	²² Ready Date 04/15/16	²³ TD 9510' 52.2	²⁴ PBD 9510'	²⁵ Perforations 5551-9477'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375" H40 48#	415'	420 sx Class C		
12-14"	9.625" J55 40#	3507'	1500 sx Class C		
8.5"	7" L80 29# / 5.5 20#L80	4794' / 9510'	625 sx Class C		
Tubing	2-7/8" J55 6.50	5062'			

V. Well Test Data

³¹ Date New Oil 04/15/16	³² Gas Delivery Date 04/15/16	³³ Test Date 04/19/2016	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 495	³⁹ Water 986	⁴⁰ Gas 195		⁴¹ Test Method P

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Emily Follis*

Printed name:
Emily Follis

Title:
Reg Analyst

E-mail Address:
emily.follis@apachecorp.com

Date:
04/21/16

Phone:
432-818-1801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will subsequently be reviewed and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC029435B
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: EMILY FOLLIS E-Mail: Emily.Follis@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM134086
3a. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1801	8. Well Name and No. CEDAR LAKE FEDERAL CA 642H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R31E NESE 2065FSL 200FEL		9. API Well No. 30-015-42902
		10. Field and Pool, or Exploratory CEDAR LAKE;GLORIETA-YESO
		11. County or Parish, and State EDDY COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Start-up
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

APACHE COMPLETED THE WELL AS FOLLOWS: (RR -07/30/15)

09/16/15 MIRU RENEGADE WL AND CRANE - PU RIH W/ CNL-CBL GR CCL TOOL TO 4780' LOG FROM 4780'- SURF.
GOOD CEMENT BOND EST CEMENT TOP @ 88' RDMO SI SDFN
09/28/15 RU RIH W/2-7/8" J55 TBG & BHA, TAG DV TOOL @ 4794' POOH W/TBG & BHA SISD
09/29/15 DRILL DEBRIS SUB @4939'RIH W/MILL,DEBRIS SUB CIRC CLEAN,PU RIH TO 5600' CIRC CLEAN POOH LD
TBG & BHA, ND BOP NU WH SI RDMOSU & REVERSE UNIT CLEAN LOCATION
10/26/15 UNLOAD ACID,RU FRAC STACK,FLOW BACK SDFN
10/27/15 UNLOAD ACID,PREFILL SAND, RU FRAC
10/28-10/29/15
FRAC 5793-9274' (TD @ 9510')PACKER PLUS SYSTEM
PACKERS SET @ 5551,5793,6078,6320,6603,6888,7132,7417,7657,7941,8181,8464,8706,8992,9274

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

14. I hereby certify that the foregoing is true and correct. Electronic Submission #337138 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad		RECEIVED
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST	
Signature (Electronic Submission)	Date 04/21/2016	
THIS SPACE FOR FEDERAL OR STATE OFFICE		
Approved By _____	Title _____	Pending BLM approvals will subsequently be reviewed and scanned
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

15

Additional data for EC transaction #337138 that would not fit on the form

32. Additional remarks, continued

(15 STAGES)

TOTAL ACID 2411 BBL, TOTAL SAND 2,840,210 #

10/29/15 RIG DOWN FRAC & OTHER SERVICES, PREP ACID TANKS FOR NEXT FRAC

11/18/16 MIRU RIG START DRILL OUTS, MILL OUT SLEEVES CIRC CLEAN POOH W/TBG & MILL

11/19/16 RD WOR & BOP - POOH W/TBG & LAYDOWN TBG

04/06/16 MIRU ACK & TALLY 2-7/8" J55 6.50 TBG NU WELL HD/BOP/HYDRIL, PU & RIH W/SUMMIT ESP, RDMO

04/15/2016 SET SURFACE, RUN ELECTRIC, PLUMB INTO BATTERY, FINAL REPORT - FIRST FLOW - POP

NOTE: Gaps in dates are due to PAD DRILLING and waiting on BLM approval for Facility

NOTE: Original well name - NFE Federal Com 42H

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029435B

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM134086

2. Name of Operator
APACHE CORPORATION
Contact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com

8. Lease Name and Well No.
CEDAR LAKE FEDERAL CA 642H

3. Address 303 VETERANS AIRPARK LANE SUITE 1000
MIDLAND, TX 79705
3a. Phone No. (include area code)
Ph: 432-818-1801

9. API Well No.
30-015-42902

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NESE 2065FSL 200FEL

At top prod interval reported below NESE 2073FSL 332FEL

At total depth NESE 2073FSL 332FEL

10. Field and Pool, or Exploratory
CEDAR LAKE;GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T17S R31E Mer

12. County or Parish
EDDY COUNTY

13. State
NM

14. Date Spudded
07/15/2015

15. Date T.D. Reached
07/29/2015

16. Date Completed
☐ D & A ☒ Ready to Prod.
04/15/2016

17. Elevations (DF, KB, RT, GL)*
3758 GL

18. Total Depth: MD 9510
TVD 5277

19. Plug Back T.D.: MD 9510
TVD 5277

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL-CBL-GR-CCL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	415		420		30	
12.000	9.625 J55	40.0	0	3507		1500		73	
8.500	7.000 L80	29.0	0	4794		355		45	
8.500	5.000 L80	20.0	4794	9510					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5062							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BLINBRY	5295	9510	5551 TO 9486			OPEN HOLE - PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material	
5551 TO 9486	TOTAL ACID 2411 BBL, TOTAL SAND 2,840,210 #	NM OIL CONSERVATION ARTESIA DISTRICT APR 25 2016

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/15/2016	04/19/2016	24	→	495.0	195.0	986.0	37.0		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				394	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API
			→				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio
			→				

Pending BLM approvals will
subsequently be reviewed
and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #337110 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	401	533	ANHYDRITE, DOLOMITE W	RUSTLER	401
SALADO	533	1413	ANHYDRITE, DOLOMITE W	SALADO	533
TANSIL	1413	1547	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1413
YATES	1547	1819	SANDSTONE O/G/W	YATES	1547
SEVEN RIVERS	1819	2415	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1819
QUEEN	2415	2834	SS, DOLO, LIMESTONE O/G/W	QUEEN	2415
GRAYBURG	2834	3150	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2834
SAN ANDRES	3150	4618	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3150

32. Additional remarks (include plugging procedure):

GLORIETA 4618 4670 SANDSTONE O/G/W
PADDOCK 4670 5295 DOLOMITE O/G/W
BLINEBRY 5295 TD DOLOMITE O/G/W

ORIGINAL WELL NAME - NFE FEDERAL COM 42H

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #337110 Verified by the BLM Well Information System.
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLIS Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/21/2016

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****



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15 Stage Final Install

Prepared for:		Company:	Date:		
Matthew Mullison		Apache	July 29, 2015		
Well Name:		Location:	Type of Installation:		
NFE Federal #42H		Location: Eddy County, New Mexico / API#: TBD	17 Stage StackFRAC® HD™		
Depth	Drawing	Description	OD (in)	ID (in)	Length (ft)
MAXIMUM AND RECOMMENDED MILL OD: 4.600" Please contact Packers Plus for recommended mill out procedures					
Notes: MD of Well: 9510.00 ft End of Tool String: 9498.00 ft TVD of Well: 5274.00 ft KOP of Well: 4771.00 ft MD of Casing Shoe: 3507.00 ft Bottom Hole Pressure: 2495 psi Bottom Hole Temperature: 143°F H₂S: 0.0% Formation: Blinbry Field: 0			KB-THF: xx,xxx lbs Compression: Tally Correction: Tubing Hanger:		
Vertical Section Build Section Horizontal Section			Well Profile		
← 9-5/8" x 40.0 lb/ft x L-80 x LT&C Surface Casing			9.625	8.835	
← MD of Casing Shoe: 3507.00 ft (TVD of Casing Shoe: 3507.00 ft / Angle of Casing Shoe: 0.0°)					
← 8-1/2" Open Hole Section					
← 7" x 29.0 lb/ft x L-80 x LT&C Liner (122 Joints)			7.000	6.184	4798.58
← Third Party Stage Tool Provider: TBA Size: 5-1/2" / Thread: LT&C / Metallurgy: L-80			0.000	0.000	2.24
← Crossover: 7" LT&C Box x 5-1/2" LT&C Pin			7.000	4.778	2.22
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 21.82 ft Pup Joint			5.500	4.778	21.82
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.96 ft Pup Joint			5.500	4.778	5.96
← Aluminium Centralizer - Size: 5-1/2" (8.250" OD)			8.250	N/A	N/A
← Packers Plus®: Hydraulic Set RockSEAL® IIS Open Hole Anchor Packer Size: 9-5/8" x 5-1/2" (7.875" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136547 / Serial Number: SNU0047943			7.875	4.700	7.78
← Aluminium Centralizer - Size: 5-1/2" (8.250" OD)			8.250	N/A	N/A
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint			5.500	4.778	3.13
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (1 Joint)			5.500	4.778	43.49
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.95 ft Pup Joint			5.500	4.778	5.95
← Aluminium Centralizer - Size: 5-1/2" (8.250" OD)			8.250	N/A	N/A
← Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047776			7.750	4.700	5.50
← Aluminium Centralizer - Size: 5-1/2" (8.250" OD)			8.250	N/A	N/A
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.11 ft Pup Joint			5.500	4.778	3.11
← 5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (1 Joint)			5.500	4.778	43.42
← Packers Plus®: Debris Sub Ball Seat: 1.750" / Actuation Ball: 2.000" SF-7			7.000	1.750	1.54



Do It Once
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15 Stage Final Install

Prepared for: Matthew Mullison		Company: Apache		Date: July 29, 2015		
Well Name: NFE Federal #42H		Location: Location: Eddy County, New Mexico / API#: TBD		Type of Installation: 17 Stage StackFRAC® HD™		
Depth	Drawing	Description		OD (in)	ID (in)	Length (ft)
		Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Assembly Number: 135895 / Serial Number: SNU0048009				
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (14 Joints)		5.500	4.778	605.16
RSH2 #15 5551.46		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint		5.500	4.778	5.98
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047790		7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.11 ft Pup Joint		5.500	4.778	3.11
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)		5.500	4.778	130.27
Stage #15 5696.32 198bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint		5.500	4.778	5.98
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.625" / Actuation Ball: 3.750" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047722		7.000	3.625	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint		5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)		5.500	4.778	84.82
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.96 ft Pup Joint		5.500	4.778	5.96
RSH2 #14 5793.06		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047950		7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint		5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)		5.500	4.778	129.87
Stage #14 5937.51 203bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.95 ft Pup Joint		5.500	4.778	5.95
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.500" / Actuation Ball: 3.625" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0048049		7.000	3.500	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint		5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)		5.500	4.778	129.20
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint		5.500	4.778	5.98
RSH2 #13 6078.66		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047798		7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.15 ft Pup Joint		5.500	4.778	3.15
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)		5.500	4.778	130.37
Stage #13 6223.65 209bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint		5.500	4.778	5.97
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.438" / Actuation Ball: 3.500" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0048047		7.000	3.438	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint		5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)		5.500	4.778	84.94
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint		5.500	4.778	5.98
RSH2 #12 6320.53		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)		8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID)		7.750	4.700	5.50



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15 Stage Final Install

Prepared for:		Company:	Date:		
Matthew Mullison		Apache	July 29, 2015		
Well Name:		Location:	Type of Installation:		
NFE Federal #42H		Location: Eddy County, New Mexico / API#: TBD	17 Stage StackFRAC® HD™		
Depth	Drawing	Description	OD (in)	ID (in)	Length (ft)
Stage #12 6464.19 215bbbls		Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110			
		Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential)			
		Assembly Number: 136540 / Serial Number: SNU0047795			
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.07 ft Pup Joint	5.500	4.778	3.07
RSH2 #11 6603.33		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.09
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 6.00 ft Pup Joint	5.500	4.778	6.00
		Packers Plus®: H2 Drillable FracPORT™	7.000	3.375	2.83
		Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80			
		Ball Seat: 3.375" / Actuation Ball: 3.438" SF-9D			
Stage #11 6747.36 221bbbls		Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential)			
		Assembly Number: 136400 / Serial Number: SNU0047257			
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	127.21
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint	5.500	4.778	5.97
RSH2 #10 6888.55		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer	7.750	4.700	5.50
		Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID)			
		Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110			
		Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential)			
Stage #10 6989.92 226bbbls		Assembly Number: 136540 / Serial Number: SNU0047793			
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint	5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	86.76
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint	5.500	4.778	5.97
RSH2 #9 7132.29		Packers Plus®: H2 Drillable FracPORT™	7.000	3.250	2.83
		Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80			
		Ball Seat: 3.250" / Actuation Ball: 3.313" SF-9D			
		Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential)			
		Assembly Number: 136400 / Serial Number: SNU0047256			
Stage #9 7299.92 226bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	130.46
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.95 ft Pup Joint	5.500	4.778	5.95
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer	7.750	4.700	5.50
RSH2 #8 7464.29		Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID)			
		Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110			
		Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential)			
		Assembly Number: 136540 / Serial Number: SNU0047793			
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
Stage #8 7640.29		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint	5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	128.73
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98



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15 Stage Final Install

Prepared for:		Company:	Date:		
Matthew Mullison		Apache	July 29, 2015		
Well Name:		Location:	Type of Installation:		
NFE Federal #42H		Location: Eddy County, New Mexico / API#: TBD	17 Stage StackFRAC® HD™		
Depth	Drawing	Description	OD (in)	ID (in)	Length (ft)
Stage #9 7275.64 233bbbls		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.188" / Actuation Ball: 3.250" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0048023 5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.12 ft Pup Joint	7.000	3.188	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	3.12
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.99 ft Pup Joint	5.500	4.778	129.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	5.500	4.778	5.99
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047954	8.250	N/A	N/A
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	7.750	4.700	5.50
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.11 ft Pup Joint	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	3.11
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	84.94
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.125" / Actuation Ball: 3.188" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047725	7.000	3.125	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.96 ft Pup Joint	5.500	4.778	5.96
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047800	7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.11 ft Pup Joint	5.500	4.778	3.11
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	127.51
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.99 ft Pup Joint	5.500	4.778	5.99
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.063" / Actuation Ball: 3.125" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047813	7.000	3.063	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint	5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.57
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.99 ft Pup Joint	5.500	4.778	5.99
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047803	7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint	5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	84.62
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 3.000" / Actuation Ball: 3.063" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047251	7.000	3.000	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.14 ft Pup Joint	5.500	4.778	3.14
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.24
Stage #8 7417.08					
Stage #7 7799.78 244bbbls					
Stage #6 8040.55 250bbbls					



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15 Stage Final Install

Prepared for:		Company:		Date:	
Matthew Mullison		Apache		July 29, 2015	
Well Name:		Location:		Type of Installation:	
NFE Federal #42H		Location: Eddy County, New Mexico / API#: TBD		17 Stage StackFRAC® HD™	
Depth	Drawing	Description	OD (in)	ID (in)	Length (ft)
RSH2 #5 8181.75		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.99 ft Pup Joint	5.500	4.778	5.99
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus® Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047802	7.750	4.700	5.50
Stage #5 8323.46 256bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.500 ft Pup Joint	5.500	4.778	3.13
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	127.10
RSH2 #4 8464.99		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98
		Packers Plus® H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 2.938" / Actuation Ball: 3.000" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047809	7.000	2.938	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.12 ft Pup Joint	5.500	4.778	3.12
Stage #4 8566.59 261bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.59
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.99 ft Pup Joint	5.500	4.778	5.99
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
RSH2 #4 8464.99		Packers Plus® Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047947	7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.11 ft Pup Joint	5.500	4.778	3.11
Stage #4 8566.59 261bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	87.02
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint	5.500	4.778	5.97
		Packers Plus® H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 2.875" / Actuation Ball: 2.938" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047705	7.000	2.875	2.83
RSH2 #3 8706.48		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.12 ft Pup Joint	5.500	4.778	3.12
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	127.96
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98
RSH2 #3 8706.48		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus® Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047949	7.750	4.700	5.50
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	5.500	4.778	3.13
Stage #3 8850.39 268bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	129.30
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98
		Packers Plus® H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 2.813" / Actuation Ball: 2.875" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0048026	7.000	2.813	2.83
RSH2 #3 8706.48		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.15 ft Pup Joint	5.500	4.778	3.15
		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	130.02
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint	5.500	4.778	5.97
RSH2 #2 8992.36		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus® Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047794	7.750	4.700	5.50
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.15 ft Pup Joint	5.500	4.778	3.15



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15 Stage Final Install

Prepared for: Matthew Mullison		Company: Apache	Date: July 29, 2015		
Well Name: NFE Federal #42H		Location: Eddy County, New Mexico / API#: TBD		Type of Installation: 17 Stage StackFRAC® HD™	
Depth	Drawing	Description	OD (in)	ID (in)	Length (ft)
Stage #2 9135.44 274bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	128.45
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.98 ft Pup Joint	5.500	4.778	5.98
		Packers Plus®: H2 Drillable FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Ball Seat: 2.750" / Actuation Ball: 2.813" SF-9D Actuation Pressure: 9 Pins x 193 psi/pin = 1,737 psi (Differential) Assembly Number: 136400 / Serial Number: SNU0047826	7.000	2.750	2.83
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.13 ft Pup Joint	5.500	4.778	3.13
RSH2 #1 9274.78		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (3 Joints)	5.500	4.778	127.45
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.93 ft Pup Joint	5.500	4.778	5.93
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Hydraulic Set RockSEAL® HT Open Hole Dual Element Packer Size: 9-5/8" x 5-1/2" (7.750" OD x 4.700" ID) Thread: LT&C / Elastomers: HSN w/ Teflon Backups / Metallurgy: L-80/C-110 Setting Pressure: 5 Pins x 341 psi/pin = 1,705 psi (Differential) Assembly Number: 136540 / Serial Number: SNU0047948	7.750	4.700	5.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.15 ft Pup Joint	5.500	4.778	3.15
Stage #1 9375.25 279bbbls		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	85.82
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 6.00 ft Pup Joint	5.500	4.778	6.00
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		Packers Plus®: Dual External Hydraulic FracPORT™ Size: 5-1/2" / Thread: LT&C / Elastomers: HSN / Metallurgy: L-80 Upper Sleeve Actuation Pressure: 6 Pins x 723 psi/pin = 4,338 psi (Differential) Lower Sleeve Actuation Pressure: 10 Pins x 419 psi/pin = 4,190 psi (Differential) Assembly Number: 105835 / Serial Number: SNU0047857	7.130	4.710	4.50
		Aluminium Centralizer - Size: 5-1/2" (8.250" OD)	8.250	N/A	N/A
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 3.08 ft Pup Joint	5.500	4.778	3.08
TCS 9474.44		5-1/2" x 20.0 lb/ft x L-80 x LT&C Liner (2 Joints)	5.500	4.778	85.64
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 5.97 ft Pup Joint	5.500	4.778	5.97
		Packers Plus®: Toe Circulating Sub Ball Seat: 1.250" / Actuation Ball: 1.375" SF-6 Size: 5-1/2" / Thread: LT&C / Elastomers: HSN/Viton / Metallurgy: L-80 Actuation Pressure: 3 Pins x 366 psi/pin = 1,098 psi (Differential) Assembly Number: 104515 / Serial Number: SNU0047878	7.380	1.250	2.67
		Float Collar Size: 5-1/2" / Thread: LT&C Assembly Number: 104735	6.050	N/A	0.98
		5-1/2" x 20.0 lb/ft x L-80 x LT&C x 6.10 ft Pup Joint	5.500	4.778	6.10
		Float Collar Size: 5-1/2" / Thread: LT&C Assembly Number: 104735	6.050	N/A	0.98
End of Tool String: 9486.00		Packers Plus®: Bullet Nose Style Re-Entry Guide Size: 5-1/2" / Thread: LT&C Assembly Number: 104911	7.250	2.750	0.83
		MD of Well: 9510.00 ft (TVD of Well: 5274.00 ft)			
Service Center: Midland, TX		Telephone: +1 (432) 238-6245	Field Specialist: Mario Hernandez 7139698550 / Brandon Helms 4323128851		Service Center Manager: Blair Battenfelder

Company: Apache				County: Eddy County			
Company Representative: Ruben Garcia				Date: July 29, 2015			
Packers Plus Representative 1: Mario Hernandez				Revision: rev2			
Packers Plus Representative 2: Brandon Helms							
Comments	Tool Description	Length ft	Landed ft(KB/MD)	Accumulated ft	Ideal Depth ft	Off Ideal Depth ft	Comments
	MD of Well		9510.00				
	End of Tool String		9486.00	0.00	# of Joints	Total Length ft	
	Packers Plus®: Bullet Nose Style Re-Entry Guide	0.83	9485.17	0.83			
	Float Collar	0.98	9484.19	1.81			
	6.1' Pup Joint	6.10	9478.09	7.91			
	Float Collar	0.98	9477.11	8.89			
	Packers Plus®: Toe Circulating Sub	2.67	9474.44	11.56			
	5.97' Pup Joint	5.97	9468.47	17.53			
	5 1/2" L-80 LTC 20#-1	42.25	9426.22	59.78	2 JTS	85.64 ft	
	5 1/2" L-80 LTC 20#-2	43.39	9382.83	103.17			
	3.08' Pup Joint	3.08	9379.75	106.25			
	Stage #1 Packers Plus®: Dual External Hydraulic FracPORT™	4.50	9375.25	110.75	9378.00	-2.75	
	6' Pup Joint	6.00	9369.25	116.75			
	5 1/2" L-80 LTC 20#-3	42.71	9326.54	159.46	2 JTS	85.82 ft	
	5 1/2" L-80 LTC 20#-4	43.11	9283.43	202.57			
	3.15' Pup Joint	3.15	9280.28	205.72			
	Packers Plus®: Hydraulic Set Rock SEAL® HT (Open Hole) D	5.50	9274.78	211.22	9246'00	28'78	205ft
	5.93' Pup Joint	5.93	9268.85	217.15			
	5 1/2" L-80 LTC 20#-5	42.25	9226.60	259.40	3 JTS	127.45 ft	
	5 1/2" L-80 LTC 20#-6	41.87	9184.73	301.27			
	5 1/2" L-80 LTC 20#-7	43.33	9141.40	344.60			
	3.13' Pup Joint	3.13	9138.27	347.73			
	Stage #2 2.750" Packers Plus®: H2 Drillable FracPORT™	2.83	9135.44	350.56	9114.00	21.44	
	5.98' Pup Joint	5.98	9129.46	356.54			
	5 1/2" L-80 LTC 20#-8	43.69	9085.77	400.23	3 JTS	128.45 ft	
	5 1/2" L-80 LTC 20#-9	42.24	9043.53	442.47			
	5 1/2" L-80 LTC 20#-10	42.52	9001.01	484.99			
	3.15' Pup Joint	3.15	8997.86	488.14			
	Packers Plus®: Hydraulic Set Rock SEAL® HT (Open Hole) D	5.50	8992.36	493.64	8982'00	10'36	276ft
	5.97' Pup Joint	5.97	8986.39	499.61			
	5 1/2" L-80 LTC 20#-11	43.67	8942.72	543.28	3 JTS	130.02 ft	
	5 1/2" L-80 LTC 20#-12	43.54	8899.18	586.82			
	5 1/2" L-80 LTC 20#-13	42.81	8856.37	629.63			
	3.15' Pup Joint	3.15	8853.22	632.78			
	Stage #3 2.813" Packers Plus®: H2 Drillable FracPORT™	2.83	8850.39	635.61	8850.00	0.39	
	5.98' Pup Joint	5.98	8844.41	641.59			
	5 1/2" L-80 LTC 20#-14	43.38	8801.03	684.97	3 JTS	129.30 ft	
	5 1/2" L-80 LTC 20#-15	43.31	8757.72	728.28			
	5 1/2" L-80 LTC 20#-16	42.61	8715.11	770.89			
	3.13' Pup Joint	3.13	8711.98	774.02			
	Packers Plus®: Hydraulic Set Rock SEAL® HT (Open Hole) D	5.50	8706.48	779.52	8718'00	11'52	280ft
	5.98' Pup Joint	5.98	8700.50	785.50			
	5 1/2" L-80 LTC 20#-17	42.95	8657.55	828.45	3 JTS	127.96 ft	
	5 1/2" L-80 LTC 20#-18	43.06	8614.49	871.51			
	5 1/2" L-80 LTC 20#-19	41.95	8572.54	913.46			
	3.12' Pup Joint	3.12	8569.42	916.58			
	Stage #4 2.875" Packers Plus®: H2 Drillable FracPORT™	2.83	8566.59	919.41	8586.00	-19.41	
	5.97' Pup Joint	5.97	8560.62	925.38			
	5 1/2" L-80 LTC 20#-20	43.51	8517.11	968.89	2 JTS	87.02 ft	
	5 1/2" L-80 LTC 20#-21	43.51	8473.60	1012.40			
	3.11' Pup Joint	3.11	8470.49	1015.51			
	Packers Plus®: Hydraulic Set Rock SEAL® HT (Open Hole) D	5.50	8464.99	1021.01	8454'00	10'99	235ft
	5.99' Pup Joint	5.99	8459.00	1027.00			
	5 1/2" L-80 LTC 20#-22	42.89	8416.11	1069.89	3 JTS	129.59 ft	
	5 1/2" L-80 LTC 20#-23	43.29	8372.82	1113.18			
	5 1/2" L-80 LTC 20#-24	43.41	8329.41	1156.59			
	3.12' Pup Joint	3.12	8326.29	1159.71			
	Stage #5 2.938" Packers Plus®: H2 Drillable FracPORT™	2.83	8323.46	1162.54	8322.00	1.46	
	5.98' Pup Joint	5.98	8317.48	1168.52			
	5 1/2" L-80 LTC 20#-25	41.83	8275.65	1210.35	3 JTS	127.10 ft	
	5 1/2" L-80 LTC 20#-26	42.62	8233.03	1252.97			
	5 1/2" L-80 LTC 20#-27	42.65	8190.38	1295.62			
	3.13' Pup Joint	3.13	8187.25	1298.75			
	Packers Plus®: Hydraulic Set Rock SEAL® HT (Open Hole) D	5.50	8181.75	1304.25	8190'00	8'25	277ft
	5.99' Pup Joint	5.99	8175.76	1310.24			
	5 1/2" L-80 LTC 20#-28	42.38	8133.38	1352.62	3 JTS	129.24 ft	
	5 1/2" L-80 LTC 20#-29	43.75	8089.63	1396.37			
	5 1/2" L-80 LTC 20#-30	43.11	8046.52	1439.48			
	3.14' Pup Joint	3.14	8043.38	1442.62			
	Stage #6 3.000" Packers Plus®: H2 Drillable FracPORT™	2.83	8040.55	1445.45	8058.00	17.45	
	5.98' Pup Joint	5.98	8034.57	1451.43			
	5 1/2" L-80 LTC 20#-31	42.25	7992.32	1493.68	2 JTS	84.62 ft	
	5 1/2" L-80 LTC 20#-32	42.37	7949.95	1536.05			
	3.14' Pup Joint	3.14	7946.81	1539.19			

Company: Apache				County: Eddy County			
Company Representative: Ruben Garcia				Date: July 29, 2015			
Packers Plus Representative 1: Mario Hernandez				Revision: rev2			
Packers Plus Representative 2: Brandon Helms							
Comments	Tool Description	Length ft	Landed ft (K/B/M/D)	Accumulated ft	Ideal Depth ft	Off Ideal Depth ft	Comments
	MD of Well		9510.00				
	End of Tool String		9486.00	0.00			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	7941.31	1544.69	7926.00	15.31	234ft
	5.99' Pup Joint	5.99	7935.32	1550.68			
	5 1/2" L-80 LTC 20#-33	43.50	7891.82	1594.18	3 JTS	129.57 ft	
	5 1/2" L-80 LTC 20#-34	43.52	7848.30	1637.70			
	5 1/2" L-80 LTC 20#-35	42.55	7805.75	1680.25			
	3.14' Pup Joint	3.14	7802.61	1683.39			
	Stage #7 3.063" Packers Plus® H2 Drillable FracPORT™	2.83	7799.78	1686.22	7794.00	5.78	
	5.99' Pup Joint	5.99	7793.79	1692.21			
	5 1/2" L-80 LTC 20#-36	41.89	7751.90	1734.10	3 JTS	127.51 ft	
	5 1/2" L-80 LTC 20#-37	42.29	7709.61	1776.39			
	5 1/2" L-80 LTC 20#-38	43.33	7666.28	1819.72			
	3.11' Pup Joint	3.11	7663.17	1822.83			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	7657.67	1828.33	7662.00	-4.33	278ft
	5.96' Pup Joint	5.96	7651.71	1834.29			
	5 1/2" L-80 LTC 20#-39	42.64	7609.07	1876.93	3 JTS	129.14 ft	
	5 1/2" L-80 LTC 20#-40	43.11	7565.96	1920.04			
	5 1/2" L-80 LTC 20#-41	43.39	7522.57	1963.43			
	3.13' Pup Joint	3.13	7519.44	1966.56			
	Stage #8 3.125" Packers Plus® H2 Drillable FracPORT™	2.83	7516.61	1969.39	7530.00	-13.39	
	5.98' Pup Joint	5.98	7510.63	1975.37			
	5 1/2" L-80 LTC 20#-42	42.70	7467.93	2018.07	2 JTS	84.94 ft	
	5 1/2" L-80 LTC 20#-43	42.24	7425.69	2060.31			
	3.11' Pup Joint	3.11	7422.58	2063.42			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	7417.08	2068.92	7398.00	19.08	235ft
	5.99' Pup Joint	5.99	7411.09	2074.91			
	5 1/2" L-80 LTC 20#-44	43.74	7367.35	2118.65	3 JTS	129.50 ft	
	5 1/2" L-80 LTC 20#-45	42.11	7325.24	2160.76			
	5 1/2" L-80 LTC 20#-46	43.65	7281.59	2204.41			
	3.12' Pup Joint	3.12	7278.47	2207.53			
	Stage #9 3.188" Packers Plus® H2 Drillable FracPORT™	2.83	7275.64	2210.36	7266.00	9.64	
	5.98' Pup Joint	5.98	7269.66	2216.34			
	5 1/2" L-80 LTC 20#-47	43.37	7226.29	2259.71	3 JTS	128.73 ft	
	5 1/2" L-80 LTC 20#-48	43.25	7183.04	2302.96			
	5 1/2" L-80 LTC 20#-49	42.11	7140.93	2345.07			
	3.14' Pup Joint	3.14	7137.79	2348.21			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	7132.29	2353.71	7134.00	-1.71	279ft
	5.95' Pup Joint	5.95	7126.34	2359.66			
	5 1/2" L-80 LTC 20#-50	43.45	7082.89	2403.11	3 JTS	130.46 ft	
	5 1/2" L-80 LTC 20#-51	43.65	7039.24	2446.76			
	5 1/2" L-80 LTC 20#-52	43.36	6995.88	2490.12			
	3.13' Pup Joint	3.13	6992.75	2493.25			
	Stage #10 3.250" Packers Plus® H2 Drillable FracPORT™	2.83	6989.92	2496.08	7002.00	-12.08	
	5.97' Pup Joint	5.97	6983.95	2502.05			
	5 1/2" L-80 LTC 20#-53	43.66	6940.29	2545.71	2 JTS	86.76 ft	
	5 1/2" L-80 LTC 20#-54	43.10	6897.19	2588.81			
	3.14' Pup Joint	3.14	6894.05	2591.95			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	6888.55	2597.45	6870.00	18.55	238ft
	5.97' Pup Joint	5.97	6882.58	2603.42			
	5 1/2" L-80 LTC 20#-55	43.34	6839.24	2646.76	3 JTS	129.27 ft	
	5 1/2" L-80 LTC 20#-56	43.32	6795.92	2690.08			
	5 1/2" L-80 LTC 20#-57	42.61	6753.31	2732.69			
	3.12' Pup Joint	3.12	6750.19	2735.81			
	Stage #11 3.313" Packers Plus® H2 Drillable FracPORT™	2.83	6747.36	2738.64	6738.00	9.36	
	5.95' Pup Joint	5.95	6741.41	2744.59			
	5 1/2" L-80 LTC 20#-58	43.71	6697.70	2788.30	3 JTS	129.41 ft	
	5 1/2" L-80 LTC 20#-59	43.45	6654.25	2831.75			
	5 1/2" L-80 LTC 20#-60	42.25	6612.00	2874.00			
	3.17' Pup Joint	3.17	6608.83	2877.17			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	6603.33	2882.67	6606.00	-2.67	279ft
	5.97' Pup Joint	5.97	6597.36	2888.64			
	5 1/2" L-80 LTC 20#-61	42.24	6555.12	2930.88	3 JTS	127.21 ft	
	5 1/2" L-80 LTC 20#-62	42.23	6512.89	2973.11			
	5 1/2" L-80 LTC 20#-63	42.74	6470.15	3015.85			
	3.13' Pup Joint	3.13	6467.02	3018.98			
	Stage #12 3.375" Packers Plus® H2 Drillable FracPORT™	2.83	6464.19	3021.81	6474.00	-9.81	
	6' Pup Joint	6.00	6458.19	3027.81			
	5 1/2" L-80 LTC 20#-64	42.10	6416.09	3069.91	3 JTS	129.09 ft	
	5 1/2" L-80 LTC 20#-65	43.52	6372.57	3113.43			
	5 1/2" L-80 LTC 20#-66	43.47	6329.10	3156.90			
	3.07' Pup Joint	3.07	6326.03	3159.97			
	Packers Plus® Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	6320.53	3165.47	6342.00	-21.47	277ft
	5.98' Pup Joint	5.98	6314.55	3171.45			

Company: Apache				County: Eddy County			
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Packers Plus Representative 1: Mario Hernandez				Revision: rev2			
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Comments	Tool Description	Length ft	Landed ft(KB/MD)	Accumulated ft	Ideal Depth ft	Off Ideal Depth ft	Comments
	MD of Well		9510.00				
	End of Tool String		9486.00	0.00	# of Joints	Total Length ft	
	5 1/2" L-80 LTC 20#-67	42.69	6271.86	3214.14	2 JTS	84.94 ft	
	5 1/2" L-80 LTC 20#-68	42.25	6229.61	3256.39			
	3.13' Pup Joint	3.13	6226.48	3259.52			
	Stage #13 3.438" Packers Plus®: H2 Drillable FracPORT™	2.83	6223.65	3262.35	6210.00	13.65	
	5.97' Pup Joint	5.97	6217.68	3268.32			
	5 1/2" L-80 LTC 20#-69	43.65	6174.03	3311.97	3 JTS	130.37 ft	
	5 1/2" L-80 LTC 20#-70	43.65	6130.38	3355.62			
	5 1/2" L-80 LTC 20#-71	43.07	6087.31	3398.69			
	3.15' Pup Joint	3.15	6084.16	3401.84			
	Packers Plus®: Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	6078.66	3407.34	6078.00	0.66	236ft
	5.98' Pup Joint	5.98	6072.68	3413.32			
	5 1/2" L-80 LTC 20#-72	42.39	6030.29	3455.71	3 JTS	129.20 ft	
	5 1/2" L-80 LTC 20#-73	43.74	5986.55	3499.45			
	5 1/2" L-80 LTC 20#-74	43.07	5943.48	3542.52			
	3.14' Pup Joint	3.14	5940.34	3545.66			
	Stage #14 3.500" Packers Plus®: H2 Drillable FracPORT™	2.83	5937.51	3548.49	5946.00	-8.49	
	5.95' Pup Joint	5.95	5931.56	3554.44			
	5 1/2" L-80 LTC 20#-75	43.47	5888.09	3597.91	3 JTS	129.87 ft	
	5 1/2" L-80 LTC 20#-76	43.45	5844.64	3641.36			
	5 1/2" L-80 LTC 20#-77	42.95	5801.69	3684.31			
	3.13' Pup Joint	3.13	5798.56	3687.44			
	Packers Plus®: Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	5793.06	3692.94	5814.00	-20.94	280ft
	5.96' Pup Joint	5.96	5787.10	3698.90			
	5 1/2" L-80 LTC 20#-78	42.47	5744.63	3741.37	2 JTS	84.82 ft	
	5 1/2" L-80 LTC 20#-79	42.35	5702.28	3783.72			
	3.13' Pup Joint	3.13	5699.15	3786.85			
	Stage #15 3.625" Packers Plus®: H2 Drillable FracPORT™	2.83	5696.32	3789.68	5682.00	14.32	
	5.98' Pup Joint	5.98	5690.34	3795.66			
	5 1/2" L-80 LTC 20#-80	43.65	5646.69	3839.31	3 JTS	130.27 ft	
	5 1/2" L-80 LTC 20#-81	43.59	5603.10	3882.90			
	5 1/2" L-80 LTC 20#-82	43.03	5560.07	3925.93			
	3.11' Pup Joint	3.11	5556.96	3929.04			
	Packers Plus®: Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	5551.46	3934.54	5572.00	-20.54	236ft
	5.98' Pup Joint	5.98	5545.48	3940.52			
	5 1/2" L-80 LTC 20#-83	43.34	5502.14	3983.86	14 JTS	605.16 ft	EOC
	5 1/2" L-80 LTC 20#-84	43.64	5458.50	4027.50			5,547FT
	5 1/2" L-80 LTC 20#-85	43.35	5415.15	4070.85			
	5 1/2" L-80 LTC 20#-86	42.91	5372.24	4113.76			
	5 1/2" L-80 LTC 20#-87	42.68	5329.56	4156.44			
	5 1/2" L-80 LTC 20#-88	43.65	5285.91	4200.09			
	5 1/2" L-80 LTC 20#-89	43.06	5242.85	4243.15			
	5 1/2" L-80 LTC 20#-90	43.67	5199.18	4286.82			
	5 1/2" L-80 LTC 20#-91	43.39	5155.79	4330.21			
	5 1/2" L-80 LTC 20#-92	42.69	5113.10	4372.90			
	5 1/2" L-80 LTC 20#-93	42.68	5070.42	4415.58			
	5 1/2" L-80 LTC 20#-94	43.66	5026.76	4459.24			
	5 1/2" L-80 LTC 20#-95	43.48	4983.28	4502.72			
	5 1/2" L-80 LTC 20#-96	42.96	4940.32	4545.68			
	Packers Plus®: Debris Sub	1.54	4938.78	4547.22	4946.00	-7.22	
	5 1/2" L-80 LTC 20#-97	43.42	4895.36	4590.64	1 JTS	43.42 ft	
	3.11' Pup Joint	3.11	4892.25	4593.75			
	Packers Plus®: Hydraulic Set Rock Seal® HT (Open Hole) D	5.50	4886.75	4599.25			
	5.95' Pup Joint	5.95	4880.80	4605.20			
	5 1/2" L-80 LTC 20#-98	43.49	4837.31	4648.69	1 JTS	43.49 ft	
	3.13' Pup Joint	3.13	4834.18	4651.82			
	Packers Plus®: Hydraulic Set Rock Seal® HT (Open Hole) D	7.78	4826.40	4659.60			
	5.96' Pup Joint	5.96	4820.44	4665.56			
	Short jt	21.82	4798.62	4687.38			
	Crossover: 7" LT&C Box x 5-1/2" LT&C Pin	2.22	4796.40	4689.60			KOP
	Third Party Stage Tool	2.24	4794.16	4691.84	4771.00	23.16	4,771
	7" L-80 LTC 29#-1	39.85	4754.31	4731.69	122 JTS	4798.58 ft	
	7" L-80 LTC 29#-2	39.48	4714.83	4771.17			
	7" L-80 LTC 29#-3	39.30	4675.53	4810.47			
	7" L-80 LTC 29#-4	40.44	4635.09	4850.91			
	7" L-80 LTC 29#-5	39.30	4595.79	4890.21			
	7" L-80 LTC 29#-6	37.50	4558.29	4927.71			
	7" L-80 LTC 29#-7	39.15	4519.14	4966.86			
	7" L-80 LTC 29#-8	39.72	4479.42	5006.58			
	7" L-80 LTC 29#-9	39.63	4439.79	5046.21			
	7" L-80 LTC 29#-10	39.44	4400.35	5085.65			
	7" L-80 LTC 29#-11	40.05	4360.30	5125.70			
	7" L-80 LTC 29#-12	39.44	4320.86	5165.14			

Company:		Apache			County:		Eddy County	
Company Representative:		Ruben Garcia			Date:		July 29, 2015	
Packers Plus Representative 1:		Mario Hernandez			Revision:		rev2	
Packers Plus Representative 2:		Brandon Helms			PLAN:			
Comments	Tool Description	Length ft	Landed ft(KB)MD	Accumulated ft	Ideal Depth ft	Off Ideal Depth ft	Comments	
	MD of Well		9510.00					
	End of Tool String		9486.00	0.00	# of Joints	Total Length ft		
	7" L-80 LTC 29#-13	39.50	4281.36	5204.64				
	7" L-80 LTC 29#-14	39.83	4241.53	5244.47				
	7" L-80 LTC 29#-15	40.05	4201.48	5284.52				
	7" L-80 LTC 29#-16	39.77	4161.71	5324.29				
	7" L-80 LTC 29#-17	40.53	4121.18	5364.82				
	7" L-80 LTC 29#-18	38.45	4082.73	5403.27				
	7" L-80 LTC 29#-19	39.36	4043.37	5442.63				
	7" L-80 LTC 29#-20	40.59	4002.78	5483.22				
	7" L-80 LTC 29#-21	39.51	3963.27	5522.73				
	7" L-80 LTC 29#-22	39.23	3924.04	5561.96				
	7" L-80 LTC 29#-23	38.90	3885.14	5600.86				
	7" L-80 LTC 29#-24	39.31	3845.83	5640.17				
	7" L-80 LTC 29#-25	37.82	3808.01	5677.99				
	7" L-80 LTC 29#-26	35.86	3772.15	5713.85				
	7" L-80 LTC 29#-27	40.25	3731.90	5754.10				
	7" L-80 LTC 29#-28	39.54	3692.36	5793.64				
	7" L-80 LTC 29#-29	39.01	3653.35	5832.65				
	7" L-80 LTC 29#-30	37.87	3615.48	5870.52				
	7" L-80 LTC 29#-31	39.55	3575.93	5910.07				
	7" L-80 LTC 29#-32	40.13	3535.80	5950.20				
	7" L-80 LTC 29#-33	39.04	3496.76	5989.24				
	7" L-80 LTC 29#-34	35.19	3461.57	6024.43				
	7" L-80 LTC 29#-35	39.48	3422.09	6063.91				
	7" L-80 LTC 29#-36	39.17	3382.92	6103.08				
	7" L-80 LTC 29#-37	39.54	3343.38	6142.62				
	7" L-80 LTC 29#-38	38.58	3304.80	6181.20				
	7" L-80 LTC 29#-39	38.91	3265.89	6220.11				
	7" L-80 LTC 29#-40	39.02	3226.87	6259.13				
	7" L-80 LTC 29#-41	39.25	3187.62	6298.38				
	7" L-80 LTC 29#-42	39.60	3148.02	6337.98				
	7" L-80 LTC 29#-43	40.16	3107.86	6378.14				
	7" L-80 LTC 29#-44	38.68	3069.18	6416.82				
	7" L-80 LTC 29#-45	39.45	3029.73	6456.27				
	7" L-80 LTC 29#-46	39.71	2990.02	6495.98				
	7" L-80 LTC 29#-47	39.47	2950.55	6535.45				
	7" L-80 LTC 29#-48	38.71	2911.84	6574.16				
	7" L-80 LTC 29#-49	39.70	2872.14	6613.86				
	7" L-80 LTC 29#-50	39.47	2832.67	6653.33				
	7" L-80 LTC 29#-51	39.48	2793.19	6692.81				
	7" L-80 LTC 29#-52	40.06	2753.13	6732.87				
	7" L-80 LTC 29#-53	39.37	2713.76	6772.24				
	7" L-80 LTC 29#-54	40.33	2673.43	6812.57				
	7" L-80 LTC 29#-55	39.91	2633.52	6852.48				
	7" L-80 LTC 29#-56	39.40	2594.12	6891.88				
	7" L-80 LTC 29#-57	40.05	2554.07	6931.93				
	7" L-80 LTC 29#-58	39.64	2514.43	6971.57				
	7" L-80 LTC 29#-59	39.28	2475.15	7010.85				
	7" L-80 LTC 29#-60	40.26	2434.89	7051.11				
	7" L-80 LTC 29#-61	40.16	2394.73	7091.27				
	7" L-80 LTC 29#-62	39.45	2355.28	7130.72				
	7" L-80 LTC 29#-63	39.55	2315.73	7170.27				
	7" L-80 LTC 29#-64	39.40	2276.33	7209.67				
	7" L-80 LTC 29#-65	38.98	2237.35	7248.65				
	7" L-80 LTC 29#-66	40.30	2197.05	7288.95				
	7" L-80 LTC 29#-67	37.87	2159.18	7326.82				
	7" L-80 LTC 29#-68	39.48	2119.70	7366.30				
	7" L-80 LTC 29#-69	39.35	2080.35	7405.65				
	7" L-80 LTC 29#-70	39.29	2041.06	7444.94				
	7" L-80 LTC 29#-71	38.82	2002.24	7483.76				
	7" L-80 LTC 29#-72	39.15	1963.09	7522.91				
	7" L-80 LTC 29#-73	39.47	1923.62	7562.38				
	7" L-80 LTC 29#-74	39.01	1884.61	7601.39				
	7" L-80 LTC 29#-75	40.29	1844.32	7641.68				
	7" L-80 LTC 29#-76	40.22	1804.10	7681.90				
	7" L-80 LTC 29#-77	38.48	1765.62	7720.38				
	7" L-80 LTC 29#-78	39.37	1726.25	7759.75				
	7" L-80 LTC 29#-79	39.46	1686.79	7799.21				
	7" L-80 LTC 29#-80	39.50	1647.29	7838.71				
	7" L-80 LTC 29#-81	39.85	1607.44	7878.56				
	7" L-80 LTC 29#-82	39.41	1568.03	7917.97				
	7" L-80 LTC 29#-83	38.26	1529.77	7956.23				
	7" L-80 LTC 29#-84	38.95	1490.82	7995.18				

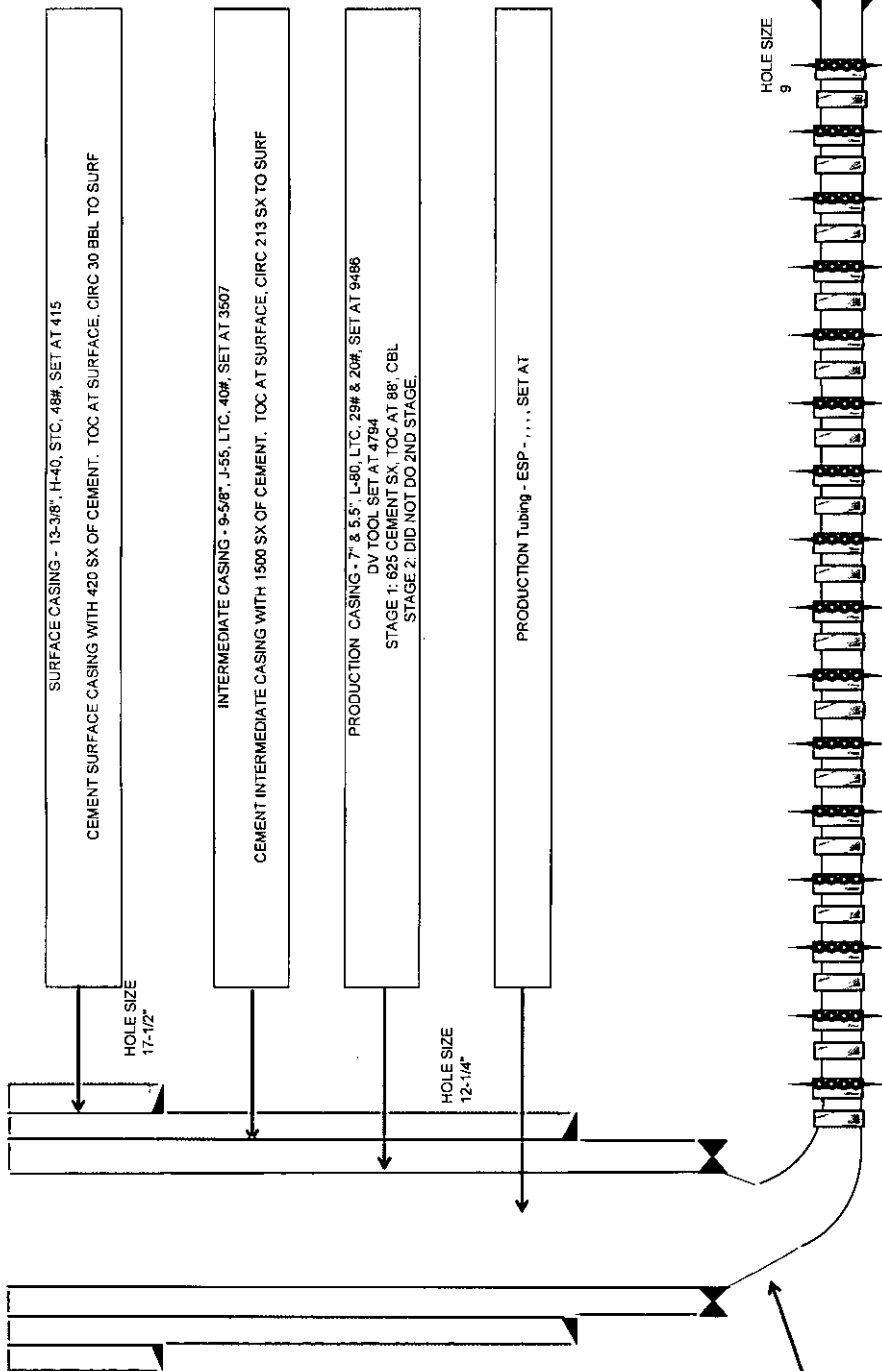
[illegible]

Cedar Lake Federal CA #642H

WELL NAME: NFE FEDERAL COM 42H
API: 30-015-42902
SPUD DATE: 7/15/2015
PRODUCING FORMATION: YESO UPR BLINEBRY
FIELD: CEDAR LAKE (BP)
COUNTY: EDDY
STATE: NEW MEXICO
WORKING INTEREST: 100.00%

SURFACE LOC: 2065' FSL & 200' FEL
SECTION: 8
TOWNSHIP: 17-S
RANGE: 31-E
SURVEY: JOHN WEST SURVEYING CO
BOTTOM HOLE LOC: 2074' FSL & 333' FWL
SECTION: 5
TOWNSHIP: 17-S
RANGE: 31-E
SURVEY: JOHN WEST SURVEYING CO
DRILL RIG: CAPSTAR 119
RIG RELEASE: 7/30/2015

KB (ft): 3,769.00
GL (ft): 3,758.00
KB/GL DIFF (ft): 11.00
TMD (ft): 9,510.00
TD OF PILOT HOLE (ft): N/A
FC DEPTH (ft): 9,477.00
PBMD (ft): 9,510.00
RDV DEPTH (ft): N/A
ORIO VALVE (ft): N/A
DEEPEST TVD (ft): 5,277.00



TAPERED CASING STRING:
7\"/>

KOP (ft):
LATERAL LENGTH (ft):
TD OF PILOT HOLE (ft): N/A

PACKERS & SLEEVES
TOP PERF (MD): 5,551
BOTTOM PERF (MD): 9,477

TMD (ft): 9,510
FC DEPTH (ft): 9,477
PBMD (ft): 9,510
RDV DEPTH (ft): N/A
ORIO VALVE (ft): N/A

PACKERS & SLEEVES - 15 STAGES

TOTAL ACID (bbl)	TOTAL LTR (bbl)	TOTAL PROPPANT (lbs)	MAX WH RATE (bpm)	MAX WH PRESSURE (psi)
2,411	86,002	2,840,210	93.00	6,105

PRODUCTION METHOD	LIFT TYPE	SETTING DEPTH
Pumping	ESP	0

CROSSOVER SUB @ 4,796'

COMPLETION:

STIMULATION:

STATUS:

COMMENTS:

LAST UPDATED BY: HILLARI GOULD
LAST UPDATED: 10/30/2015

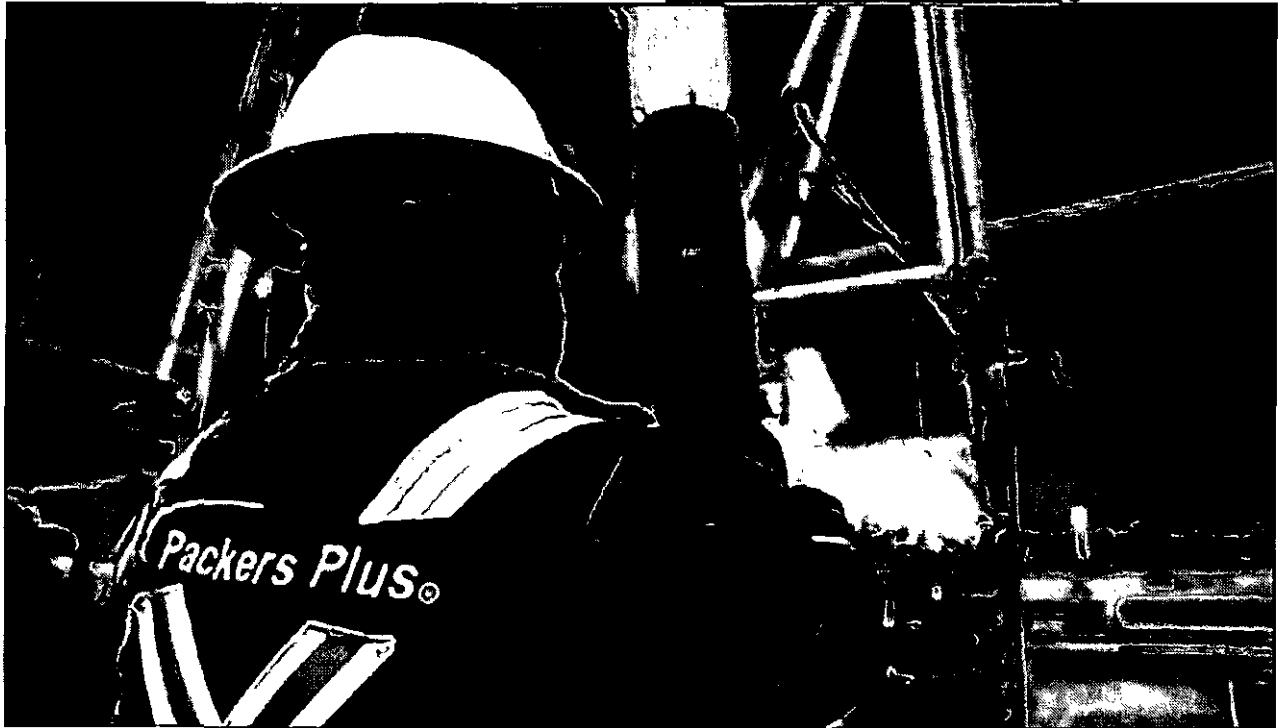
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Final Well File

Packers Plus

**Do It Once
Do It Right**



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17 Stage StackFRAC® HD™

NFE Federal #42H

Eddy County, New Mexico