Submit 1 Copy To Appropriate District Office	State of New Me		Form C-103
District I - (575) 393-6161	Energy, Minerals and Natu	ral Resources	Revised July 18, 2013 API NO.
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283	OH CONCERNATION	30-01	15-43841
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178	OIL CONSERVATION 1220 South St. Fran	ois Dr. 5. India	cate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87	7505	TATE X FEE
<u>District IV</u> - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Salita Fe, Nivi 67	6. State	Oil & Gas Lease No.
	TICES AND REPORTS ON WELLS	7. Leas	e Name or Unit Agreement Name
	POSALS TO DRILL OR TO DEEPEN OR PLU LICATION FOR PERMIT" (FORM C-101) FO	OR SUCH	ern State 16
1. Type of Well: Oil Well	Gas Well 🗓 Other		Number 1H
2. Name of Operator RKI Exp	loration and Production, LLC		AID Number 246289
3. Address of Operator 3500 One Williams (Center MD 35 Tulsa, OK 74172		ol name or Wildcat
4. Well Location			
Unit Letter U	: 2310 feet from the S	line and200	feet from theline
Section 16		inge 27E NMPM	Eddy County
	11. Elevation (Show whether DR, 3157 GR	RKB, RT, GR, etc.)	
	·		
12. Check	Appropriate Box to Indicate N	ature of Notice, Report of	or Other Data
NOTICE OF I	NTENTION TO:	SUBSEQUE	ENT REPORT OF:
PERFORM REMEDIAL WORK	_	REMEDIAL WORK	☐ ALTERING CASING ☐
TEMPORARILY ABANDON L		COMMENCE DRILLING OF	<u> </u>
PULL OR ALTER CASING DOWNHOLE COMMINGLE		CASING/CEMENT JOB	$\overline{\mathbf{x}}$
CLOSED-LOOP SYSTEM			
OTHER:		OTHER:	
	npleted operations. (Clearly state all pwork). SEE RULE 19.15.7.14 NMAC		
proposed completion or re		. For Multiple Completions	Attach wendore diagram of
Deep intermediate casin	,		
2 0 P	8,		NM O.
PJR attached			ART CONSERVAT
- ,			NM OIL CONSERVATION AND O
•	size: 7"; Depth 9467'; Weight: 4	10; Grade: HCP-110	AUG 2 6 2016
680 sxks lead @ 11.2 ppg	g; 200 sxks tail @15.6 ppg		RECEIVED
			4ED
C1 D-4	Rio Ralanca Da	ta	
Spud Date: 8/11/2016	Rig Release Da	ite:	
I hereby certify that the information	on above is true and complete to the be	est of my knowledge and beli	ef.
,	·		
SIGNATURE Fuhino	TITLE_Regu	ılatory Specialist	DATE 8/23/2016
Type or print name Ashlee Fechi	ino F-mail addrass	ashlee.fechino@wpxenergy	.com PHONE: 539.573.0212
For State Use Only	E-man address	5.	1110NL. 337.373.0212
	Sharp TITLE BU	Nous Ar Di	date <i>8-30-</i> /6
APPROVED BY After (September 2):	marp IIILE LUI	MperSpec-Ud	DATE 0-30-76



ENERGY SERVICES LLC

DESIGN - EXECUTE - EVALUATE - REPORT

DEEP INTERMEDIATE

NM OIL CONSERVATION
ARTESIA DISTRICT
AUG 2 6 2016

WPX ENERGY

Cavern State 16 #1H

Eddy County New Mexico

RECEIVED

PRIMARY PUMP:

2002 Josh Casillas

SECONDARY PUMP:

PREPARED BY: Ruben Sanchez Jr

SERVICE SUPERVISOR
ARTESIA DISTRICT
1-575-748-8610

8/21/2016

WELL SUMMARY



ENERGY SERVICES LLC

			WEL	L/CASING D	JATA				7 or 10 14 50
JOB TYPE: DEEP INTER	RMEDIATE			HOLE SIZE:		8.75			
OTAL DEPTH:	9467			PREVIOUS (CASING SIZE	:	9.625		
PREVIOUS CASING LB/	FT:	40	· <u>··</u>	PREVIOUS (CASING DEP	TH:	2134		
CASING SIZE:	7				*****				
CASING LB/FT:	29			CASING GR	ADE:	HCP-110			
LOAT COLLAR DEPTH	9361.1			SHOE JOIN	Γ LENGTH:	88	1.1.1.		
OV TOOL DEPTH:	n/a			SECOND DV	/ TOOL DEP	TH:	n/a	·	•
OTAL DEPTH:	9467			TOTAL CAS	ING :	9449.1			
			- 10	JBULAR DA	IA)	N (1774)			
BG/D.P. SIZE:				TBG/D.P. D	EPTH:		<u> </u>		
BG/D.P. LB/FT:	······································			TOOL DEPT	H:				
ACKER OR RETAINER:				PERF/HOLE	DEPTH:				
				ACE EQUIP	MENT)				M. KJ. Z.
CEMENT HEAD SIZE:		7 INCH		QUICK CON	INECT SIZE:	7 INCH			
ORILL PIN SIZE/TYPE:				THREAD:		8 ROUND			.,
TUBING SWEDGE SIZE				TAKE 2 -2 II	NCH REGUL	AR TUBINO	SWEDGES	5	
ARREST CONTRACTOR	5 7 1 T S		CHE	MICALSINEE	DED:	7. 7. 2. 2			
	4								
	Rubon Sand		- <u>- </u>	EQUIPMENI		. (200 <u>2)</u>	Travis Ko	J. Cov	
SUPERVISOR:	Ruben Sand	hez	<u>, , , , , , , , , , , , , , , , , , , </u>	FIELD REPR	ESENTATIV		Travis Ke	lsey	
SUPERVISOR:	1	hez		T	ESENTATIV	E: 2002	Travis Ke	lsey	
in the contraction of the contra	Ruben Sand	chez as		FIELD REPR	BER:		Travis Ke	lsey	
SUPERVISOR: PUMP OPERATOR: E/O:	Ruben Sand Josh Castill	chez as		FIELD REPR	ESENTATIV BER: BER:	2002	Travis Ke	lsey	
SUPERVISOR: PUMP OPERATOR:	Ruben Sand Josh Castill	chez as		FIELD REPR UNIT NUM UNIT NUM	ESENTATIV BER: BER: BER:	2002	Travis Ke	lsey	
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SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: E/O: IST SLURRY:	Ruben Sand Josh Castilli David Ramo	chez as os 20 Bentonite	+ 8% PF60 Ple)	FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER: BER:	2002		+ .4 pps PF45	5 Defoamer
SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: ST SLURRY: DENSITY: 11.2	PVL + 10% PF	chez as os 20 Bentonite		FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER:	2002			o Defoamer
SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: 1ST SLURRY: DENSITY: 11.2 2ND SLURRY:	Ruben Sand Josh Castilla David Rame PVL + 10% PF YIELD: H + .2% PF13	chez as os 20 Bentonite - 2.64 Retarder	+ 8% PF60 Ple)	FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER: BER: SER: BER: BER: BER:	2002		+ .4 pps PF45 680	5 Defoamer
SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: 1ST SLURRY: DENSITY: 11.2 2ND SLURRY: DENSITY: 15.6	Ruben Sand Josh Castilla David Rame PVL + 10% PF YIELD: H + .2% PF13	chez as os 20 Bentonite	+ 8% PF60 Ple)	FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER: BER:	2002		+ .4 pps PF45	i Defoamer
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SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: 1ST SLURRY: DENSITY: 11.2 2ND SLURRY: DENSITY: 15.6 3RD SLURRY: DENSITY: 4TH SLURRY: DENSITY: 5TH SLURRY	PVL + 10% PF: YIELD: YIELD: YIELD:	chez as os 20 Bentonite - 2.64 Retarder	+ 8% PF60 Ple) MIX H2O: MIX H2O:	FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER: SACKS: SACKS:	2002		+ .4 pps PF45 680	5 Defoamer
SUPERVISOR: PUMP OPERATOR: E/O: E/O: E/O: 1ST SLURRY: DENSITY: 11.2 2ND SLURRY: DENSITY: 15.6 3RD SLURRY: DENSITY: 4TH SLURRY: DENSITY: DENSITY:	Ruben Sand Josh Castilla David Ramo PVL + 10% PF YIELD: H + .2% PF13 YIELD: YIELD: YIELD:	chez as os 20 Bentonite - 2.64 Retarder	MIX H2O: MIX H2O: MIX H2O: MIX H2O:	FIELD REPR UNIT NUM UNIT NUM UNIT NUM UNIT NUM ELUIDIDATA	BER: BER: BER: BER: BER: SACKS: SACKS: SACKS:	2002		+ .4 pps PF45 680	Defoamer

WELL SUMMARY



ENERGY SERVICES LLC

COMPANY NAME:	WPX ENERGY		DATE:	8/21/201	L 6		
LEASE NAME:	CAVERNS STATE 16 #		OPERATO	OR NAME:	WPX ENER	GY	
WELL NUMBER:	1H		TICKET N	UMBER:	5657		
API NUMBER:	30-015-43841		AFE NUM	1BER:			
SECTION: 16		TOWNSHIP	' :	235		RANGE:	27E
COUNTY: EDDY			STATE:	NEW ME	XICO		· -
RIG NAME: ORION 1	0	COMPANY	REP:	PRESTON	WRAY	PHONE#:	281-436-6380
			DIRECTIO	NS W		the state of the state of	

US 285 to 62/180 stay on 62/180 T/L at Derrick Rd. T/R at Old Cavern Hwy for 2miles T/L thru locked Chevron gate (combo 1462) go 1 mile T/L 0.1 mile T/R 0.3 miles to location.

NOTES

UPDATED BY SHANE WHITE 8/11/16

TAKE 4 1/2 8 ROUND AND BUTTRESS FOR NEXT STRING

णंचर

MAKE SURE ALL EMPLOYEES HAVE PROPER PPE

JOB PROCEDURE.

PUMP 20 BBLS FRESH WATER SPACER PUMP 830 SACKS LEAD SLURRY @11.2 PPG

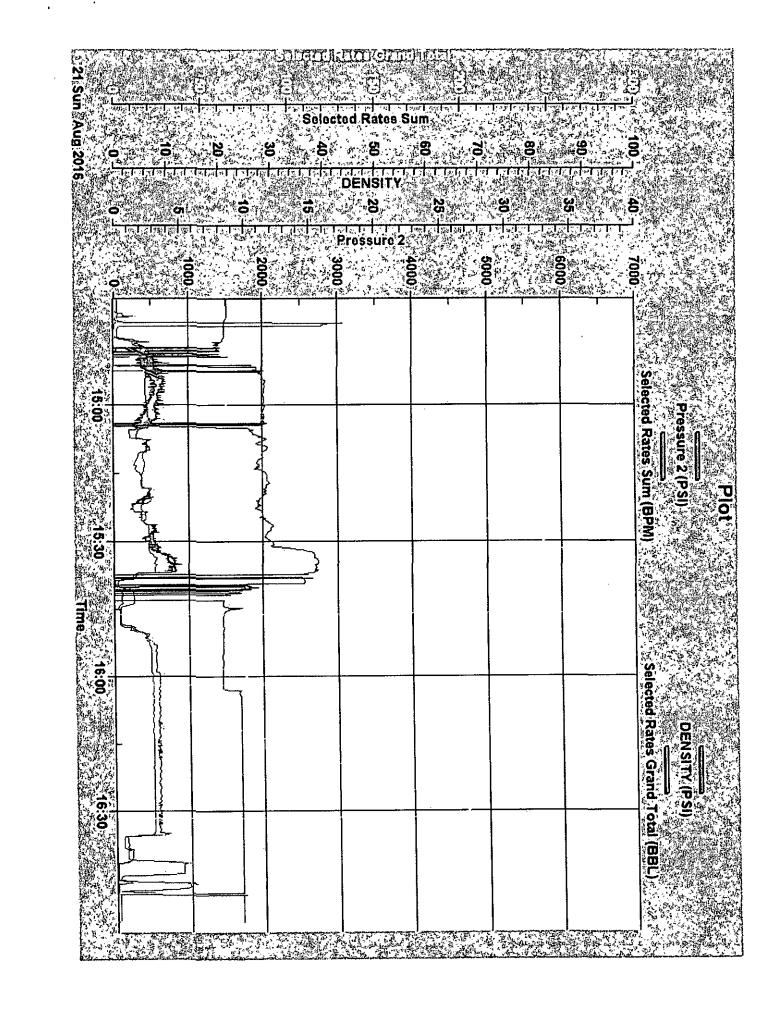
PUMP 200 SACKS TAIL SLURRY @ 15.6 PPG SHUT DOWN DROP PLUG DISPLACE WELL

JOB LOG



MOVENERGY DATE: 8/21/2016

LEASE NAME: CAVERNS STATE 16 # TICKET NUMBER: 5657	COMPANY N	AME:	WPX EN	RGY		DATE: 8/21/2016
SCHEDULED LOCATION TIME	LEASE NAME	:	CAVERNS	S STATE 16	#	
TIME ARRIVED ON LOCATION IMERITARY COLUMNE COLUMN	WELL NUMB	ER:	1H			JOB TYPE: DEEP INTERMEDIATE
	SCHEDULED	LOCATIO	N TIME		5:30 AM	
3:00 X	TIME ARRIVE	D ON LC	CATION		4:30 AM	TIME LEFT LOCATION 19:00 pm
3:00 X	TIME	PRES	SURE 1	VOLUME.	RATE	LOG DETAILS
3:00 x		IBGIOR DIP	CASING			
4:30 X ARRIVE LOCATION 4:35 X HAZZARD ASSESMENT 4:40 X PRE-RIG UP MEETING 4:45 X Rig Up 5:15 X Flinished Rigging up X Rig Still Running Casing 13:30 X Casing Crew Rigging Down 13:55 X Pre Job Safety Meeting 14:20 X Stab Head 14:21 X 0 14:43 X 0 14:44 X 2800 0.5 Test Lines 14:50 X 220 14:54 X 480 319.7 6.5 15:30 X 390 42 5.5 Tail Slurry 15:43 X 0 15:44 X 570 7 Displacement 16:43 X 138 3 Slow Rate 16:50 X 950 3 Bump Plug X Check Floates X Check Floates X Floates not holding re bump X Check Floates <t< td=""><td></td><td></td><td></td><td></td><td></td><td>PRE-CONVOY MEETING</td></t<>						PRE-CONVOY MEETING
4:35 X HAZZARD ASSESMENT 4:40 X PRE-RIG UP MEETING 4:45 X Rig Up 5:15 X Finished Rigging up X Rig Still Running Casing 13:30 X Casing Crew Rigging Down 13:55 X Pre Job Safety Meeting 14:20 X Stab Head 14:43 X 0 2 2 2 2 Bbl Spacer to Fill Lines 14:46 X 2800 0.5 0.5 14:50 X 220 10 5.5 Dye Spacer 14:54 X 480 319.7 6.5 Lead Sturry 15:30 X 390 42 5.5 Tail Sturry 15:43 X 0 0 0 Shut Down Drop Plug 15:43 X 138 3 Slow Rate 16:43 X 138 3 Slow Rate 16:50 X 950 3 Bump Plug X Check Floates X Check Floates X Check Floates X Check Floates X Floates not holding r	3:10	Χ				DEPARTURE FROM YARD
4:40 X	4:30	Х				ARRIVE LOCATION
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5:15 X Image: Still Running Casing Right Rig	4:40	Х				PRE-RIG UP MEETING
X	4:45	Х		-		Rig Up
13:30 X	5:15	Х				Finished Rigging up
13:55 X		Χ				Rig Still Running Casing
14:20 X Stab Head 14:43 X 0 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3	13:30	Х				Casing Crew Rigging Down
14:43 X 0 2 2 2 Bbl Spacer to Fill Lines 14:46 X 2800 0.5 0.5 Test Lines 14:50 X 220 10 5.5 Dye Spacer 14:54 X 480 319.7 6.5 Lead Slurry 15:30 X 390 42 5.5 Tail Slurry 15:43 X 0 0 0 Shut Down Drop Plug 15:44 X 570 7 Displacement 16:43 X 138 3 Slow Rate 16:50 X 950 3 Bump Plug X 16:55 X Check Floates X 16:55 X Check Floates X Circulated no Cement 17:02 X Rig Down Safety Meeting 17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location	13:55	Χ				Pre Job Safety Meeting
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15:43 X 0 0 0 Shut Down Drop Plug 15:44 X 570 7 Displacement 16:43 X 138 3 Slow Rate 16:50 X 950 3 Bump Plug X Hold for 5 Min Check Floates X Check Floates Floates not holding re bump X Circulated no Cement 17:02 X Rig Down Safety Meeting 17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location	14:54	X .	480	319.7	6.5	Lead Slurry
15:44 X 570 7 Displacement 16:43 X 138 3 Slow Rate 16:50 X 950 3 Bump Plug X Hold for 5 Min Check Floates X Check Floates Check Floates X Floates not holding re bump X Circulated no Cement 17:02 X Rig Down Safety Meeting 17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location	15:30	Х	390	42	5.5	Tail Slurry
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X Circulated no Cement 17:02 X Rig Down Safety Meeting 17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location	16:55	х				Check Floates
17:02 X Rig Down Safety Meeting 17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location		х				Floates not holding re bump
17:15 X Rig Down 18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location		х				Circulated no Cement
18:40 X Finished Rigging down X Field bin not blown down belt on motor broke 19:00 X Leaving Location	17:02	x				Rig Down Safety Meeting
X Field bin not blown down belt on motor broke 19:00 X Leaving Location	17:15	Х				Rig Down
19:00 X Leaving Location	18:40	X				Finished Rigging down
		Х				Field bin not blown down belt on motor broke
X Thank You Ruben Sanchez Jr and Crew For Using PAR-5 Energy	19:00	х				Leaving Location
		X				Thank You Ruben Sanchez Jr and Crew For Using PAR-5 Energy
					·	





Par Five Energy Services, LLC

ART16-6454-01PA

11279 Lovington Hwy Artesia, NM

Phone(575)748-8610 Fax: (575) 748-8625

Customer: WPX Energy

MD: 9368

Report Date: August 18 2016

Well Name: Cavern State 16 #1H

TVD: 9055

Stage: Lead

County: Eddy

State: NM BHST: 152

String: 2nd Intermediate

Rig: Orion 10

BHCT: 109

Blend Type: Pilot Blend

Salesman: Chris DeLeon

Reported By: Rodriguez, Sonny

Slurry Information

Density: 11.20 ppg Yield: 2.63 cuft/sk Mix Fluid: 15.711 gal/sk

Slurry Composition

Cement Blend: PVL Additive Conc PF-020 10.00%

Design Description **BWOB** Bentonite Gel

BWOB

Lot Number Bulk

PF-060 PF-013 8.00%

0.40%

BWOB FPZ Strength Enhancer

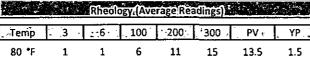
MM02C-2752BK

PF-606 0.70% **BWOB** Fluid Loss

Retarder

GS20121C01-26

BWOB PE-045 0.400 lb/sk Defoamer 201304AC



Temp	POD	-30 Bc	- 50 Bc -	.70 Bć √	100 Bc	Batch Time
109 °F	1:47	3:53	5:13	6:00		0

109 °F 1 1 12 17 15 2

Thickening Time does not include batch time.

A CASE	The state of the s		Free Fluid		
Temp	, ¿Incl.	` 	ml Collected,	Start Time	Stop Time
109 °F	0		0 ml/250	1:32	3:32

36 42 M (4) 4 8 4		Fluid Loss		
Temp	PSI	ml Collected	Minutes:	API (Calc)
109 °F	1000	60 ml	At 30	120

		UCA Com	pressive S	trength		
Temp'+	- 50 psi	1500 psi"	, 12 hr.	, 24 hr.	.48 hr .	72 hr.
152	7:57	18:49	203	596		

Par Five Energy Services, LLC

Pilot Blend

Blend Type:

ENERGY SERVICES LLC

Artesia, NM

11279 Lovington Hwy

Phone(575)748-8610 Fax: (575) 748-8625

Customer: WPX Energy MD: 9368 Report Date: August 18 2016

TVD: 9055 Well Name: Cavern State 16 #1H Stage: Tail

BHST: 152 County: Eddy State: NM String: 2nd Intermediate

BHCT: 109 Reported By: Salesman: Chris DeLeon Elliot, Isaac

Slurry Information

Mix Fluid: 5.216 gal/sk Density: 15.60 ppg Yield: 1.18 cuft/sk

Slurry Composition

Class H Cement Blend:

Additive Conc

Rig: Orion 10

PF-013 0.20%

Design Description **BWOB** Retarder

Lot Number MM02C-2752BK

		Rheolo	gy.(Ave	rage Rea	dings)		
. Temp.	, ₁3 દ	.:6	100	7.200	300	" .PV "	. ,yp.
80 °F	1	1.5	9	16	22	19.5	2.5
		_					

10.75 109 °F 23.25

Thickening (Time 50 Bc 70 Bc 🖫 Batch Time Temp: POD . 30 Bc 109 °F 2:46 3:36 4:09 4:36 0 Thickening Time does not include batch time.

		Free Fluid		
⊬_ ,Temp	🎨 , Incl. 🚁	ml Collected	Start Time.	'Stop Time
109 °F	0	6 ml/250	1:33	2:33

		UCA Com	pressive S	trength	
⊶ Temp 🖫	50 psi .4	500 psi	. 12 hr 🤅	ÿ24'hŕ∛.	* 48 hr 72 hr.
152	4:17	6:26	1291	1838	

Comments