

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

Heather Riley, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 1-12-18

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-045-35637-00-00	PINON UNIT	305H	JUNIPER RESOURCES EXPLORATION COMPANY, LLC	O	A	San Juan	F	M	16	24	N	10	W	1277	S	288	W

Application Type:

- P&A
 Drilling/Casing Change
 Location Change
 Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)
 Other:

Conditions of Approval:

File subsequent recompletion sundry, C-104 and completion report before returning to production.


NMOCD Approved by Signature

1/18/18
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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 page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. STATE
2. Name of Operator JUNIPER RESRC EXPLRN CO LLC Contact: AMANDA PALMER E-Mail: AMANDA.PALMER@JNPRESOURCES.COM		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
3a. Address 3624 OAK LAWN AVE STE 222 DALLAS, TX 75219	3b. Phone No. (include area code) Ph: 214-443-0001 Fx: 469-331-8320	7. If Unit or CA/Agreement, Name and/or No. NMNM133481X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 16 T24N R10W SWSW 1277FSL 288FWL		8. Well Name and No. PINON UNIT 305H
		9. API Well No. 30-045-35637-00-S1
		10. Field and Pool or Exploratory Area PINON UNIT HZ
		11. County or Parish, State SAN JUAN COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplete 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Juniper proposes to recomplete the above mentioned well by adding perforations and stimulating an additional interval in the currently permitted Mancos interval (Pinon Unit HZ (oil) Pool) as outlined in the attached procedure.

OIL CONS. DIV DIST. 3
JAN 17 2018

14. I hereby certify that the foregoing is true and correct. Electronic Submission #400558 verified by the BLM Well Information System For JUNIPER RESRC EXPLRN CO LLC, sent to the Farmington Committed to AFMS for processing by JACK SAVAGE on 01/17/2018 (18JWS0059SE)	
Name (Printed/Typed) JUSTIN DAVIS	Title VP - OPERATIONS
Signature (Electronic Submission)	Date 01/12/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JACK SAVAGE</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>01/17/2018</u>
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 Farmington

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



Well name: PINON UNIT 305H



Field: Pinon Unit
 State, County: San Juan County, New Mexico
 Location: 1277 FSL & 288 FWL, Sec 16, T24N, R10W
 TD: 13,729' MD
 PBTD: 13,729' MD
 TOC: Surface (7" Interm.)
 KB: 6,760' (14' KB)
 GL: 6,746'
 Misc info: 4.5"x OH annular Fluid Cement
 4.5 casing Fluid Produced fluid
 BHT 114° F @ 5443' (From OH Log) - 0.9° / 100' Gradient - Too low to believe?
 B Section Unknown

Engineer in Charge: Justin Davis - Cell: 469-307-2405, Office 469-729-8181, Email: justin.davis@jnrresources.com

CSG	OD	ID	Drift	GRADE	THD	WT/FT	TOP	BTM	SXS	Capacity	Burst	Collapse
Surface	9.625"	8.921"	8.765"	J-55	LT&C	36.00#	0'	324'	101	0.0787	3,520	2,020
Intermediate	7.000"	6.366"	6.241"	J-55	LT&C	23.00#	0'	5,471'	725	0.0393	4,360	3,270
Prod	4.500"	4.000"	3.875"	P-110	LT&C	11.60#	0'	13,704'	770	0.0155	10,690	7,580

Note:

Maximum Allowable pressure is 90% of burst of pipe: 3,924 psig

- Inspect location, shut down gas lift and isolate flow lines, prep site for workover rig (For both 305H and 306H wells). Spot 19 x 400 bbl up-right frac tanks and fill with fresh water (coordinate tank spotting w/ Halliburton). As possible, include produced water from the 305H. Spot a flowback tank and lay 2" flowline from wellhead to tank. Install a choke manifold at flowback tank.
- MIRU workover rig and associated equipment to the PU 306H well. Fill working tank with 2% KCL. Kill well / load hole with KCL. ND wellhead and NU 5M psi double ram BOP. TOH laying down 4 1/2" frac string keeping hole full with 2% KCL. Ensure Baker hand is informed and send in seal assembly for redress.
- ND BOP, NU wellhead and secure well. RDMO workover rig to the 305H well.
- MIRU workover rig and associated equipment to the PU 305H well. Kill well / load hole with KCL. ND wellhead and NU BOP. Release packer and TOH w/ 2 7/8" production tubing, GLV's and 7" packer. Send packer and GLV's in for redress if necessary.
- MIRU wireline unit. RU 4 1/2" or 5" lubricator with WL BOP. RIH w/ GR/CCL/CBL log and pull log section \pm +/- 5,100' to 3,500' (or minimum survey). Correlate to SLB Triple Combo log date 22-May-2017 (attached). POH. PU & RIH w/ 7" wireline set / tubing retrievable bridge plug. Set RBP @ +/- 4950'. POH. RU rig pump and pressure test plug to 2000 psig for 15 mins. Bleed pressure to tank. Dump sand on top of plug prior to perforating and allow to settle. PU & RIH w/ 3-1/8" casing guns (SDP-3125-411NT4 charges or similar). Perforate Mancos 3 interval as follows:

Stage 1 Mancos 3					
Top Perf	Base Perf	Phasing	Feet	SPF	Total holes
4,842'	4,850'	120	8	3	24
Total holes					24

Note - Perf's picked from pilot hole log (vertical) - ensure correct GR correlation prior to shooting - if necessary, run GR with guns.

Note any pressure or fluid level changes after perf. POH. RDMO WL unit.

- Rack and tally 4 1/2", 11.6# P110 frac string (from the PU 306H) and 4 1/2" x 7" stimulation packer. PU & TIH w/ packer and 4 1/2" frac string. Set packer at +/- 4500' (depending on collar location). Confirm set down weight w/ packer hand after tubing movement calcs. (Est. set down of 20 klbs). ND BOP and NU casing hanger, 5M or 10M frac valve and goat head. Land casing in wellhead and prep for frac. RDMO WO Rig.

Note: Depending on ambient temp - MIRU hot oiler and heat frac water to +/- 80 deg F prior to frac.

- MIRU stimulation company including backside pump, WL unit and crane. Frac Mancos 3 interval down 4 1/2" casing per recommendation. Maximum STP = 4000 psig.
 - Pressure 4 1/2" x 7" annulus to 2000 psig and hold during treatment
 - Frac interval per attached pump schedule
 - Record ISIP and 5 min SIP's for 30 mins then SWI and prep for WL.

- RU WL unit, lubricator and WL BOP. PU & RIH w/ 3-1/8" casing guns (SDP-3125-411NT4 charges or similar). Perforate Mancos 1 / 2 interval as follows:

Stage 2 Mancos 1 / 2					
Top Perf	Base Perf	Phasing	Feet	SPF	Total holes
4,556'	4,559'	90	3	6	18
4,646'	4,650'	120	4	6	24
4,674'	4,678'	120	4	6	24
4,692'	4,696'	90	4	6	24
4,720'	4,723'	90	3	6	18
Total holes					108

Note - Perf's picked from pilot hole log (vertical) - ensure correct GR correlation prior to shooting - if necessary, run GR with guns.

Note any pressure or fluid level changes after perf. POH & RDMO WL unit.

- MIRU stimulation company including backside pump. Frac Mancos 1 / 2 interval down 4 1/2" casing per recommendation. Maximum STP = 4000 psig.
 - Drop 50 ball sealers (bio-balls if available) prior to pumping pad
 - Pressure 4 1/2" x 7" annulus to 2000 psig and hold during treatment
 - Frac interval per attached pump schedule
 - Record ISIP and 5 min SIP's for 30 mins then open well to flowback tank on a 12/64" ck

RDMO stimulation company and turn well over to flow testers.

- Flow well on increasing chokes to recover frac load. Monitor well for sand and fluid production.
- When able, MIRU WO rig, pump, pit and associated equipment. Kill well w/ 2% KCL. ND frac tree and NU BOP.
- Release 7" packer and TOH w/ packer and 4 1/2" casing. Send casing in to yard for storage.
- Run production string for extended production test - string will be determined based on flowback and availability to run pump/rods. If unable to run pump/rods, GLV's will be run back in hole for 30 day test. Discuss with EIC prior to running string. Turn well over to production.