

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
30-045-35442-00-00	PINON UNIT	307H	JUNIPER RESOURCES EXPLORATION COMPANY, LLC	O	A	San Juan	F	L	10	24	N	10	W	1753	S	199	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

Verbal approval given 1-17-18

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM101058

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
PINON UNIT 307H

2. Name of Operator

JUNIPER RESRC EXPLRN CO LLC

Contact: AMANDA PALMER

E-Mail: amanda.palmer@jnpresources.com

9. API Well No.
30-045-35442-00-S1

3a. Address

3624 OAK LAWN AVE STE 222
DALLAS, TX 75219

3b. Phone No. (include area code)

Ph: 214-443-0001

10. Field and Pool or Exploratory Area
BISTI LOWER GALLUP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 10 T24N R10W NWSW 1753FSL 0199FWL
36.325630 N Lat, 107.891650 W Lon

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 recompleate 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 recompleation 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.

UPDATED PROCEDURE ATTACHED

Juniper proposes to recompleate 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. Upon stimulation and initial flowback testing, this interval will be commingled with the current Mancos/Gallup completion and returned to production.

OIL CONS. DIV DIST. 3

JAN 17 2018

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #400553 verified by the BLM Well Information System
For JUNIPER RESRC EXPLRN CO LLC, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 01/17/2018 (18JWS0060SE)

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 JACK SAVAGE

Title PETROLEUM ENGINEER

Date 01/17/2018

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 **

NMOC D

Well name: PINON UNIT 307H



Field: Pinon Unit
 State, County: San Juan County, New Mexico
 Location: 1753' FSL & 199' FWL, Sec 10, T24N R10W
 TD: 10,155' MD
 PBTD: 10,155' MD
 TOC: Surface (7" Interm.) / Uncemented Prod. Liner
 KB: 6,922' (13')
 GL: 6,909'
 Misc info: 4.5"x OH annular Fluid Unknown - Produced fluid
 4.5 casing Fluid Produced fluid
 BHT 154' F @ 5581' (From OH Log) - 1.59° / 100' Gradient
 B Section Unknown

Engineer in Charge: Justin Davis - Cell: 469-307-2405, Office 469-729-8181, Email: justin.davis@jnpresources.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'	523'	224	0.0787	3,520	2,020
Intermediate	7.000"	6.366"	6.241"	J-55	LT&C	26.00#	0'	5,507'	715	0.0382	4,980	4,320
Prod	4.500"	4.000"	3.875"	SB-80	LT&C	11.60#	0'	10,155'	-	0.0155	10,690	7,580

Note:

Maximum Allowable pressure is 90% of burst of pipe: **4,482 psig**

- 1) Inspect location and disconnect any chemical injection and move all equipment away from the wellhead. Spot 5 x 400 bbl up-right frac tanks and fill with fresh water (coordinate tank spotting w/ Halliburton). Spot a flowback tank and lay 2" flowline from wellhead to tank. Install a choke manifold at flowback tank.
- 2) MIRU workover rig and associated equipment. Fill working tank with 2% KCL. Kill well / load hole with KCL. ND wellhead and NU 5M psi double ram BOP. TOH laying down 2 7/8" production tubing keeping hole full with 2% KCL. Stack tubing securely on the edge of location.
- 3) MIRU wireline unit. RU 4 1/2" or 5" lubricator with WL BOP. RIH w/ GR/CCL/CBL log and pull log section \pm 5,250' to 4,100' (or minimum survey). Correlate to HES Triple Combo log date 11-Jun-13. POH. PU & RIH w/ 7" wireline set / tubing retrievable bridge plug. Set RBP @ \pm 5200'. POH. RU rig pump and pressure test plug to 2000 psig for 15 mins. Bleed pressure to tank. 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
5,130'	5,138'	120	4	3	12
5,152'	5,156'	120	4	3	12

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.

- 4) Rack and tally 4 1/2", 11.6# P110 frac string (company owned) and 4 1/2" x 7" stimulation packer. PU & TIH w/ packer and 4 1/2" frac string. Set packer at \pm 4845' (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 \pm 80 deg F prior to frac.

- 5) MIRU stimulation company including backside pump, WL unit and crane. Frac Mancos 3 interval down 4 1/2" casing per recommendation. Maximum STP = 4500 psig.
 - a. Pressure 4 1/2" x 7" annulus to 2000 psig and hold during treatment
 - b. Frac interval per attached pump schedule
 - c. Record ISIP and 5 min SIP's for 30 mins then SWI and prep for WL.

- 6) RU WL unit, lubricator and WL BOP. PU & RIH w/ 2" RTG Guns (RTG-2107-421T, 7 gm, 0.29" EH, 26" PEN). Perforate Mancos 1 / 2 interval as follows:

Stage 2 Mancos 1 / 2

Top Perf	Base Perf	Phasing	Feet	SPF	Total holes
4,868'	4,871'	60	3	6	18
4,935'	4,939'	60	4	6	24
4,957'	4,961'	60	4	6	24
4,979'	4,983'	60	4	6	24
4,999'	5,002'	60	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.

- 7) MIRU stimulation company including backside pump. Frac Mancos 1 / 2 interval down 4 1/2" casing per recommendation. Maximum STP = 4500 psig.
 - a. Drop 50 ball sealers (bio-balls if available) prior to pumping pad
 - b. Pressure 4 1/2" x 7" annulus to 2000 psig and hold during treatment
 - c. Frac interval per attached pump schedule
 - d. 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.

- 8) Flow well on increasing chokes to recover frac load. Monitor well for sand and fluid production.
- 9) When able, MIRU WO rig, pump, pit and associated equipment. Kill well w/ 2% KCL. ND frac tree and NU BOP.
- 10) Release 7" packer and TOH w/ packer and 4 1/2" casing. Send casing in to yard for storage. PU & TIH w/ 2 7/8" tbg and retrieve 7" RBP. Ensure hole is loaded prior to releasing. TOH and release RBP and Packer.
- 11) Run tubing, pump and rods. Actual design and running program will follow.

- 12) Turn well over to production.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NMNM101058

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
PINON UNIT 307H9. API Well No.
30-045-35442-00-S110. Field and Pool or Exploratory Area
BISTI LOWER GALLUP11. County or Parish, State
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

JUNIPER RESRC EXPLRN CO LLC

Contact: AMANDA PALMER

E-Mail: amanda.palmer@jripresources.com

3a. Address

3624 OAK LAWN AVE STE 222
DALLAS, TX 75219

3b. Phone No. (include area code)

Ph: 214-443-0001

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 10 T24N R10W NWSW 1753FSL 0199FWL
36.325630 N Lat, 107.891650 W Lon**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. Upon stimulation and initial flowback testing, this interval will be commingled with the current Mancos/Gallup completion and returned to production.

OIL CONS. DIV DIST. 3**JAN 08 2018**

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #399633 verified by the BLM Well Information System
For JUNIPER RESRC EXPLRN CO LLC, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 01/05/2018 (18JWS0050SE)

Name (Printed/Typed) JUSTIN DAVIS

Title VP - OPERATIONS

Signature (Electronic Submission)

Date 01/04/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE

Title PETROLEUM ENGINEER

Date 01/05/2018

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Office Farmington

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(Instructions on page 2)

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

HMOODFV

Well name: PINON UNIT 307H



Field: Pinon Unit
 State, County: San Juan County, New Mexico
 Location: 1753' FSL & 199' FWL, Sec 10, T24N R10W
 TD: 10,155' MD
 PBTD: 10,155' MD
 TOC: Surface (7" Interm.) / Uncemented Prod. Liner
 KB: 6,922' (13')
 GL: 6,909'
 Misc info: 4.5" x OH annular Fluid
 4.5 casing Fluid
 BHT
 B Section

Unknown - Produced fluid
 Produced fluid
 154°F @ 5581' (From C.H. Log) - 1.59° / 100' Gradient
 Unknown

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

OIL CONS. DIV DIST. 3

JAN 08 2018

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'	523'	224	0.0787	3,520	2,020
Intermediate	7.000"	6.366"	6.241"	J-55	LT&C	26.00#	0'	5,507'	715	0.0382	4,980	4,320
Prod	4.500"	4.000"	3.875"	SB-80	LT&C	11.60#	0'	10,155'	-	0.0155	10,690	7,580

Note:

Maximum Allowable pressure is 85% of burst of pipe: 4,233 psig

- 1) Inspect location and disconnect any chemical injection and move all equipment away from the wellhead. Spot 2 x 400 bbl up-right frac tanks and fill with fresh water (coordinate tank spotting w/ Halliburton). Spot a flowback tank and lay 2" flowline from wellhead to tank. Install a choke manifold at flowback tank.
- 2) MIRU workover rig and associated equipment. Fill working tank with 2% KCL. Kill well / load hole with KCL. ND wellhead and NU 5M psi double ram BOP. TOH laying down 2 7/8" production tubing keeping hole full with 2% KCL. Stack tubing securely on the edge of location.
- 3) MIRU wireline unit. RU 4 1/2" or 5" lubricator with WL BOP. RIH w/ GR/OCL/CBL log and pull log section 11' +/- 5,100' to 4,100' (or minimum survey). Correlate to HES Triple Combo log date 11-Jun-13. POH. PU & RIH w/ 7" wireline set / tubing retrievable bridge plug. Set RBP @ +/- 5050'. POH. RU rig pump and pressure test plug to 2000 psig for 15 mins. Bleed pressure to tank. PU & RIH w/ 4" casing guns (SDP-3; 125-41 INT4 charges or similar). Perforate Upper Mancos interval as follows:

Stage 1 Upper Mancos

Top Perf	Base Perf	Phasing	Feet	SPF	Total holes
4,935'	4,919'	120	4	3	12
4,957'	4,961'	120	4	3	12

Total holes 24

Note any pressure or fluid level changes after perf. POH.

- 4) SWI and MIRU kill truck. Break perf down with 40 bbls 2% KCL water at maximum rates possible. Max pressure = 4200 psi. Record rates, pressures and 5 min SIP's for 30 mins. Bleed well down then RU WL and continue perforating as noted below:

Stage 1 Upper Mancos

Top Perf	Base Perf	Phasing	Feet	SPF	Total holes
4,868'	4,871'	90	3	2	6
4,979'	4,983'	90	4	2	8
4,999'	5,002'	90	3	2	6

Total holes 20

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

- 5) Rack and tally 4 1/2", 11.6# P110 frac string (company owned) and 4 1/2" x 7" stimulation packer. PU & TIH w/ packer and 4 1/2" frac string. Set packer at +/- 4845' (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 frac valve and goat head. Land casing in wellhead and prep for frac. RD WO rig and move to nearby location.

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

- 6) MIRU stimulation company including backside pump. Frac Upper Mancos interval down 4 1/2" casing per recommendation. Maximum STP = 4500 psig.
 - a. Pressure 4 1/2" x 7" annulus to 2000 psig and hold during treatment
 - b. Frac interval per attached pump schedule
 - c. Record ISIP and 5 min SIP's for 30 mins then open well to tank on a 1 7/64" choke

RDMO stimulation company and turn well over to flow testers.

- 7) Flow well on increasing chokes to recover frac load. Monitor well for sand and fluid production.
- 8) When able, MIRU WO rig, pump, pit and associated equipment. Kill well w/ 2% KCL. ND frac tree at NU BOP.
- 9) Release 7" packer and TOH w/ packer and 4 1/2" casing. Send casing in to yard for storage. PU & TIH w/ 2 7/8" tbg and retrieve 7" RBP. Ensure hole is loaded prior to releasing. TOH and release RBP and Packer.
- 10) Run tubing, pump and rods. Actual design and running program will follow.
- 11) Turn well over to production.