State of New Mexico
Energy, Minerals and Natural Resources Department

dhcSusana 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: 7/10/2018
Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-35638-00-00	PINON UNIT	306H	JUNIPER RESOURCES EXPLORATION COMPANY, LLC	O	A	San Juan	F	M	16	24	N	10	W

Application Type:

☐ P&A ☐ Drilling/Casing Change ☐ Location Change

o ☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84

☒ Other: Sidetrack

Conditions of Approval:

- Hold C-104 for NSL approval.
- See email and corresponding schematic for plug back of the original lateral.
- For the plugback of the original lateral a cement plug will be required from the CIBP at 4270' up to 3894' plus 50' of excess. This is required as the perforation plug and the Mancos top plug.

Brandon Powell

NMOCD Approved by Signature

8/2/18
Date

Form 3160-5
(June 2015)

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

5. Lease Serial No.
NMNM101058

6. If Indian, Allottee or Tribe Name
EASTERN NAVAJO

7. If Unit or CA/Agreement, Name and/or No.
NMNM133481X

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
PINON UNIT 306H

2. Name of Operator
JUNIPER RESRC EXPLRN CO LLC
Contact: AMANDA PALMER
E-Mail: amanda.palmer@jnpresources.com

9. API Well No.
30-045-35638-00-X1

3a. Address
3333 LEE PKWAY, SUITE 210
DALLAS, TX 75219

3b. Phone No. (include area code)
Ph: 214-443-0001

10. Field and Pool or Exploratory Area
PINON UNIT HZ

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 16 T24N R10W SWSW 1277FSL 318FWL

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 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 Resources Exploration Co LLC respectfully requests review and approval of the attached plans to plug back and sidetrack the Pinon Unit 306H well. Juniper plans to sidetrack the referenced well in order to alleviate previous wellbore integrity and completion complications and to establish the well as a producer.

Included in the attachments are a drill plan, geo-prognosis, directional plan, and survey for the proposed wellbore trajectory. If additional information is required, please advise.

NMOCD

AUG 02 2018

DISTRICT III

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

Electronic Submission #426831 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 07/30/2018 (18JWS0139SE)

Name *(Printed/Typed)* JUSTIN DAVIS — Title VP OPERATIONS

Signature (Electronic Submission) — Date 07/10/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE — Title PETROLEUM ENGINEER — Date 07/30/2018

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 ****

BP NMOCD

NMOCD

AUG 03 2018

DISTRICT III

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-35638	98102	PINON UNIT HZ (OIL)

[4] Property Code	[5] Property Name	[6] Well Number
314246	PINON UNIT	306H ST

[7] OGRID No.	[8] Operator Name	[9] Elevation
371654	JUNIPER RESOURCES EXPLORATION CO. LLC.	6732

[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
M	16	24 N	10 W		1277	SOUTH	318	WEST	SAN JUAN

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	21	24 N	10 W		2191	SOUTH	150	EAST	SAN JUAN

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
PENETRATED SPACING UNITS: S/2 SEC. 16, ALL OF SEC. 21, T-24-N, R-10-W, 960 ACRES 8005.44 ACRES-W/2 SEC. 4, ALL SEC. 5-10, 15-18 & 21, N/2 SEC. 22 & 28, T-24-N, R-10-W - UNDIVIDED UNIT			R-13857A (8005.44 ACRES)

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

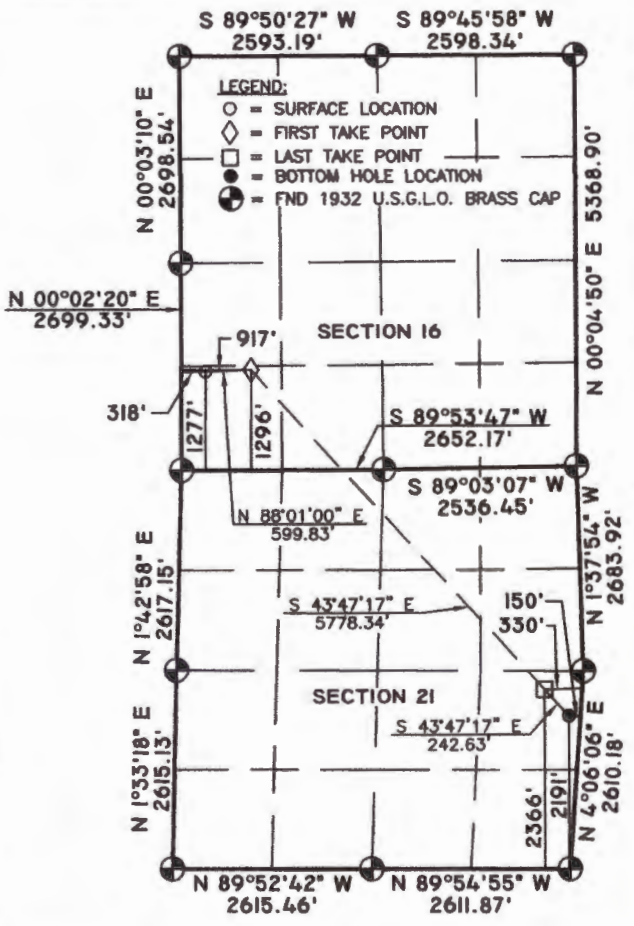
16

SURFACE
SEC. 16, T24N, R10W
1277' FSL, 318' FWL
LAT: 36.3094124° N
LONG: 107.9087406° W
NAD 83
LAT: 36.3094014° N
LONG: 107.9081216° W
NAD 27

FIRST TAKE POINT
SEC. 16, T24N, R10W
1296' FSL, 917' FWL
LAT: 36.3094707° N
LONG: 107.9067060° W
NAD 83
LAT: 36.3094597° N
LONG: 107.9060871° W
NAD 27

LAST TAKE POINT
SEC. 21, T24N, R10W
2366' FSL, 330' FEL
LAT: 36.2980192° N
LONG: 107.8931256° W
NAD 83
LAT: 36.2980080° N
LONG: 107.8925072° W
NAD 27

BOTTOM HOLE LOCATION
SEC. 21, T24N, R10W
2191' FSL, 150' FEL
LAT: 36.2975383° N
LONG: 107.8925555° W
NAD 83
LAT: 36.2975271° N
LONG: 107.8919371° W
NAD 27



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 7/30/18

Matt Strickler
Printed Name

Matt.Strickler@jnpresources.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

3-20-17
Date of Survey

Signature and Seal of Professional Surveyor:

MARSHALL W. LINDEEN
NEW MEXICO
17078
PROFESSIONAL SURVEYOR
7-12-18

17078
Certificate Number

Attachment to Application for Permit to Drill
Drilling Program

Juniper Resources Exploration Co., LLC
3333 Lee Pkwy.
Suite 210
Dallas, TX 75219

Pinon Unit 306H ST
Horizontal Re-entry
Horizontal Oil and Gas Well
Surface Location: 1277' FSL – 318' FWL
Section 16, T24N, R10W
GL Elev. = 6732', Estimate RKB 6748'
Lat. = 36.309413°N, Long. = 107.908740°W
San Juan, New Mexico
Proposed Entry Point Location: 1296' FSL – 917' FWL
Section 16, T24N, R10W
Proposed Bottom Hole Location: 2370' FSL – 146' FEL
Section 21, T24N, R10W
San Juan, New Mexico

Drilling Program written in compliance with Onshore Oil and Gas Order No. 1 (OO1 III.D.3, effective May 7, 2007) and Onshore Order No. 2, Dated November 18, 1988

A. Names and estimated tops of all geologic groups, formations, members or zones.

Anticipted Formation Tops	Sub Sea Elevation	6746' KB TVD	Fluid Type	Thickness	Pressure Gradient
Nacimiento	Surface	Surface		0	Cased
Ojo Alamo	6259	489	Water (tight)	145	Cased
Kirtland	6114	634		442	Cased
Fruitland	5672	1076	Oil & Gas	248	Cased
Pictured Cliffs	5424	1324		144	Cased
Lewis Shale	5280	1468	Oil & Gas	554	Cased
CliffHouse	4726	2022	Oil & Gas	787	Cased
Menefee	3939	2809	Oil & Gas	968	0.38
Point Lookout	2971	3777	Oil & Gas	173	0.38
Mancos	2798	3950	Oil & Gas	609	0.38
Mancos Slt	2189	4559	Oil & Gas	49	0.38
Mancos 2	2140	4608	Oil & Gas	151	0.38
Mancos 2A	1989	4759	Oil & Gas	36	0.38
Mancos 2B	1953	4795	Oil & Gas	26	0.38
El Vado	1927	4821	Oil & Gas	30	0.38
Target	1897	4851	Oil & Gas	40	0.38
Top Frac Barrier	1857	4891			0.38

B. Estimated depth and thickness of formations, members or zones potentially containing useable water, oil, gas or prospectively valuable deposits of other minerals that the operator expects to encounter, and the operator's plans for protecting such resources.

Anticipted Formation Tops	Sub Sea Elevation	6746' KB TVD	Fluid Type	Thickness	Pressure Gradient
Nacimiento	Surface	Surface		0	Cased
Ojo Alamo	6259	489	Water (tight)	145	Cased
Kirtland	6114	634		442	Cased
Fruitland	5672	1076	Oil & Gas	248	Cased
Pictured Cliffs	5424	1324		144	Cased
Lewis Shale	5280	1468	Oil & Gas	554	Cased
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El Vado	1927	4821	Oil & Gas	30	0.38
Target	1897	4851	Oil & Gas	40	0.38
Top Frac Barrier	1857	4891			0.38

Conductor: None

Surface Casing: Existing Set 5/8/17 @ 324', circulated 10 bbls of cement to surface. Protection of shallow fresh water shall be accomplished by setting surface casing 50' below known fresh water sources and cemented to surface with 9-5/8" surface casing.

Possible Aquifers: Ojo Alamo covered with surface casing.

Intermediate Casing: Existing Set 6/5/17 @ 5132', cemented to surface. Protection for all formations above the target zone will be accomplished by setting 7" casing horizontally into the target zone and cementing to surface.

Production Casing Liner: Set 6/13/17, problem with liner hanger and packer setting prematurely. Attempted to squeeze casing 6/14/17. Will redrill production hole. Protection for all formations below the target formation will be accomplished by setting 4-1/2" production casing liner from total depth to 150' into the 7" intermediate casing. The liner will be cemented full length for zonal isolation in the exposed formation.

C. The operator's minimum specifications for blowout prevention equipment and diverter systems to be used, including size, pressure rating, configuration and the

testing procedure and frequency. Blowout prevention equipment must meet the minimum standards outlined in Order 2.

BOP equipment and accessories will meet or exceed BLM requirements outlined in 43 CFR Part 3160.

The working pressure of all BOPE shall exceed the anticipated surface pressure to which it may be subjected, assuming a partially evacuated hole with a pressure gradient of 0.22 psi/ft.

Bottom Hole pressure = 4851' TVD x 0.38 psi/ft = 1843 psi (based on measured offset bottom hole pressures).

Maximum Surface Pressure = 1843 psi - (4851' TVD x .22 psi/ft = 1067 psi) = 776 psi less than 2000 psi working pressure.

Therefore 2000 psi BOPE system required.

A 2000 psig double ram hydraulic BOP will be used (see attached diagram) accessories to the BOP will meet BLM requirements for a 2000 psig system, in accordance with Onshore Order #2 (111.A well requirements).

The accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill line kill line and line to the choke manifold will be 2".

BOPs will be function tested every 24 hours and will be recorded on an IADC log. Accessories to the BOPE will include upper and lower Kelly cocks with handles with a stabbing valve to fit drill pipe on the floor at all times, string float at bit, 3000 psig choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge.

All BOP equipment will be hydraulically operated with controls accessible both on the rig floor.

The wellhead BOP equipment will be nippled-up on the 9-5/8" x 11" 2,000 psi WP casing head prior to drilling out from under surface casing. All ram preventers and related equipment will be tested to 2,000 psi for 10 minutes. Annular preventers will be tested to 50% of rated working pressure for 10 minutes. Surface casing will be tested to 70% of internal yield pressure. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested every 14 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe rams will be activated daily and blind rams shall be activated each trip or at least weekly. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE.

D. The operator's proposed casing program, including size, grade, weight, type of thread and coupling, the setting depth of each string, and its condition. The operator must include the minimum design criteria, including casing loading assumptions and corresponding safety factors for burst, collapse, and tensions (body yield and joint strength). The operator must also include the lengths and setting depth of each casing when a tapered casing string is proposed. The hole size for each wellbore section of

hole drilled must be included. Special casing designs such as the use of coil tubing or expandable casing may necessitate additional information.

Proposed Bit and Casing Program

Bit Program

Re-enter existing 7" casing at approximately 3700'MD/3698'TVD by setting a bridge plug and whipstock, then cutting a 6 1/8" window and drill out with a 6-1/8" bit to total depth

KOP #1 (for back build) – 3700'MD/3698'TVD, build at 8°/100' to 34.6°, 355.69° azimuth to 4140'MD/4112'TVD

KOP #2 (Curve) – 6 1/8" curve from 4140'MD/4112'TVD, build 10°/100' to Landing Point 5283'MD/4851'TVD, 90.0° and 134.89° azimuth

Drill 6 1/8" lateral to TD 11188'MD/4814'TVD, 90.0°, 134.89° azimuth

Lateral length – 5905'MD

Casing Program – all casing stings are new casing

Casing & Hole Size	Weight	Grade	Coupling	Setting Depth (MD)	Comments
Conductor				None	
9-5/8" (13-1/2")	36 ppf	K-55	ST&C	0' – 324'MD	Existing Cement to surface.

7" (8-3/4")	23 ppf	J-55	LT&C	0' – 5132'MD	Existing Cement to surface.
4 ½" (6 1/8")	11.6 ppf	HC P-110	BT&C	3550'MD –11188'MD	New Casing. Cement full length 150' overlap in 7"
4 ½" (6 1/8")	11.6 ppf	HC P-110	BT&C	0'MD –3550' MD	New Casing. Possible Tieback If Required

Casing strings below the conductor casing will be tested to .22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.

Minimum casing design factors used: Collapse - 1.125
Burst - 1.0
Jt. Strength - 1.2

Protection of oil, gas, water, or other mineral bearing formations:
Protection shall be accomplished by setting surface casing below base of possible aquifer and cementing surface casing to surface. EXISTING

The intermediate casing will be centralized using 1 centralizer the first 9 jts and spaced appropriately 1 every 4th joint to surface. Approximately 76 centralizers will be run. EXISTING

The production liner casing will be centralized using appropriately 1 every 3rd joint to intermediate casing. Approximately 64 centralizers will be run.

Liner Casing & Tieback Casing Design

Liner	Size	Weight	Grade	Conn	Collapse	Burst	Tension	Notes
	4.5	11.6	HCP-110	BTC	8,650	10,690	385,000	TD 11188', TVD 4851', LP 4851'
					1.125	1.000	1.200	TOL 3700 3698 TVD
								TOL is 150' into the 7"
Collapse	**Casing Depth (TVD)**	**MW in**	**MW out**	**Pres in**	**Pres out**	**SF**		
	4851	0.00	11.00	0	2775	3.12		
Burst	4851	10.00	11.00	2523	2775	1.22	9000	
				11523				Burst pressure = Hyd + frac pressure
Tension		**Mud Wt**	**Air Wt**	**Bouy Wt**	**BW +100k**			100k over pull
	4851	11.00	56,272	46,821	146,821	2.62		
		BF						BF= 1- (MW)/65.5
		0.8321						
Tieback	**Size**	**Weight**	**Grade**	**Conn**	**Collapse**	**Burst**	**Tension**	**Notes**
	4.5	11.6	HCP-110	BTC	8,650	10,690	385,000	
					1.125	1.000	1.200	
Collapse	**Casing Depth (TVD)**	**MW in**	**MW out**	**Pres in**	**Pres out**	**SF**		
	3698	0.00	11.00	0	2115	4.09		
Burst	3698	10.00	11.00	1923	2115	1.21	9000	
				10923				Burst pressure = Hyd + frac pressure
		Mud Wt	**Air Wt**	**Bouy Wt**	**BW +100k**			100k over pull
Tension	3698	11.00	42,897	35,693	135,693	2.84		
		BF						BF= 1- (MW)/65.5
		0.8321						

E. **The estimated amount and type(s) of cement expected to be used in the setting of each casing string. If stage cementing will be used, provide the setting depth of the stage tool(s) and the amount and type of cement including additives, to be used for each stage. Provide the yield of each cement slurry and the expected top of cement, with excess, for each cemented string or stage.**

Proposed Cementing Program

Production Liner Casing (approximately 150'+ 7" casing shoe) - (3550'MD-11188'MD):
Excess – 50% over gauge hole – 6-1/8" hole and 4-1/2" casing (0.0942 ft3/ft)
Top of Cement – 150' above 7" casing shoe.

Tail #1 - (3550'-11188'): 940 sx – 13.5 ppg, 35:65 Dak G, conventional cement containing:
EXTENDACEM ™ – Cement – 62.01 lbs/sx WBWOB
Kol-Seal – Lost Circulation Control Agent – 5 lbs/sx WBWOB
Poly-E-Flake – Lost Circulation Control Agent – 0.125 lbs/sx WBWOB
Yield – 1.306 ft3/sx
Water requirement – 5.35 gal/sx.
Compressive strength: 24 hr – 1000 psi+

Total sacks of cement pumped = 940 sks
Cement volumes are minimums and may be adjusted based on hole conditions.

F. Type and characteristcs of the proposed circulating medium or mediums proposed for the drilling of each well bore section, the quantities and types of mud and weighting material to be maintained, and the monitoring equipment to be used on the circulating system. The operator must submit the detailed information when air or gas drill is proposed.

Interval (MD)	Hole Section	Hole Size	Type	MW (ppg)	VIS (s/qt)	FL (mL/30 min)	PV (cP)	YP (lbs/100ft²)
3700'-11188'	Sidetrack	6-1/8"	6% KCL	8.4-10.0	45-50	10-15	8-12	7-8

Sufficient weighting material will be on hand to weight mud up to 14 PPG, if required.

The formula for weight up with barite is listed below:
Sacks of Barite per 100 bbl of mud = 1470 x (W2 – W1) ÷ (35 – W2)

Where; W1 = current mud weight

W2 = new mud weight

Sacks = 1470 x (10 – 8.4)/ (35-10) = 94 sx * 20 (2000bbls minimum) = 1880sx

Pason Pit Volume Totalizer (PVT) equipment will be on each pit to monitor pit levels. A trip tank equipped with a Pason PVT will be used to monitor trip volumes.

G. The testing, logging, and coring procedures proposed, including drill stem testing procedures, equipment, and safety measures. Testing, Logging, Coring and Completion Program

A. Drill-Stem Testing Program: None

B. Logging Program:

MWD-Gamma Ray from Kick off Point to TD:

C. Mud Logging
Geologist & a manned mud-logging unit will be operational @ +/- 3700' to TD of the horizontal hole.

D. Coring: None.

E. Cement Bond Log: As required.

H. The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures, or potential hazards that the operator expects to encounter, such as lost circulation and hydrogen sulfide. A description or the operators plans for mitigating such hazards must be included. Expected Bottom hole Pressure and any Anticipated Abnormal Pressures, Temperatures or Other Potential Hazards

A. Expected bottom-hole pressure @ the formation is 0.38 psi/ft. x 4851' = 1843 psi based on offset measured reservoir pressure.
B. Expected bottom-hole temperature @ the formation is 160°F.
C. Lost circulation is possible while drilling the upper zones and loss circulation material

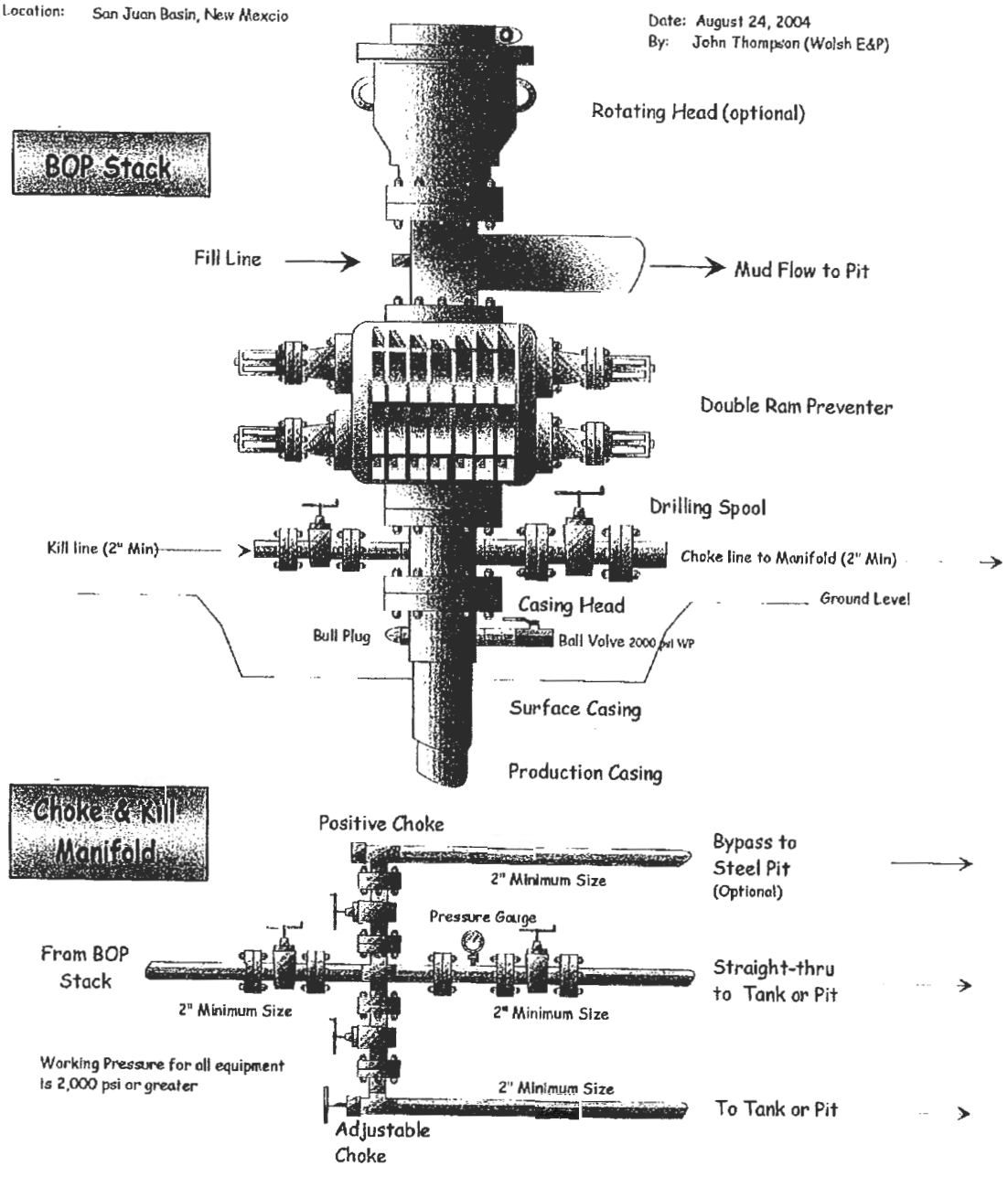
Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1
Typical BOP setup

Location: San Juan Basin, New Mexcio

Date: August 24, 2004
By: John Thompson (Walsh E&P)



JUNIPER RESOURCES

Seidel Technologies
www.seideltech.com

Juniper Resources, LLC.

San Juan County NM (NAD 83)
Sec 16 24N 10W
Pinon 306 ST
Sidetrack
UWI:
API:

Plan: #5

Seidel Tech Planning Report

29 June, 2018

SEIDEL TECHNOLOGIES

JUNIPER RESOURCES

Project: San Juan County NM (NAD 83)
Site: Sec 16 24N 10W
Well: Pinon 306 ST
Wellbore: Sidetrack
Plan: #5

SEIDEL

CASING DETAILS		
TVD	MD	Name
324.0	324.0	9 5/8" Csg.
4797.0	5132.0	7" Csg.

Note: Casing Depths Are Estimates Only

Well Centre Reference

Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
Northing: 1931937.70
Easting: 2700872.89
Latitude: 36.309421
Longitude: -107.908746
Grid Convergence:
Ground Elevation: 6734.0
KB Elevation: RKB @ 6748.0usft (kb;14')

Wellbore Take Points Est In True North

TVD	MD	+N/-S	+E/-W	Annotation
3697.9	3700.0	16.6	12.8	Stk Pt;3700' MD/w 8°/100'
4851.0	5282.6	143.0	3.1	EOB
4814.0	11187.5	17.8	601.2	TD at 11187.5' MD

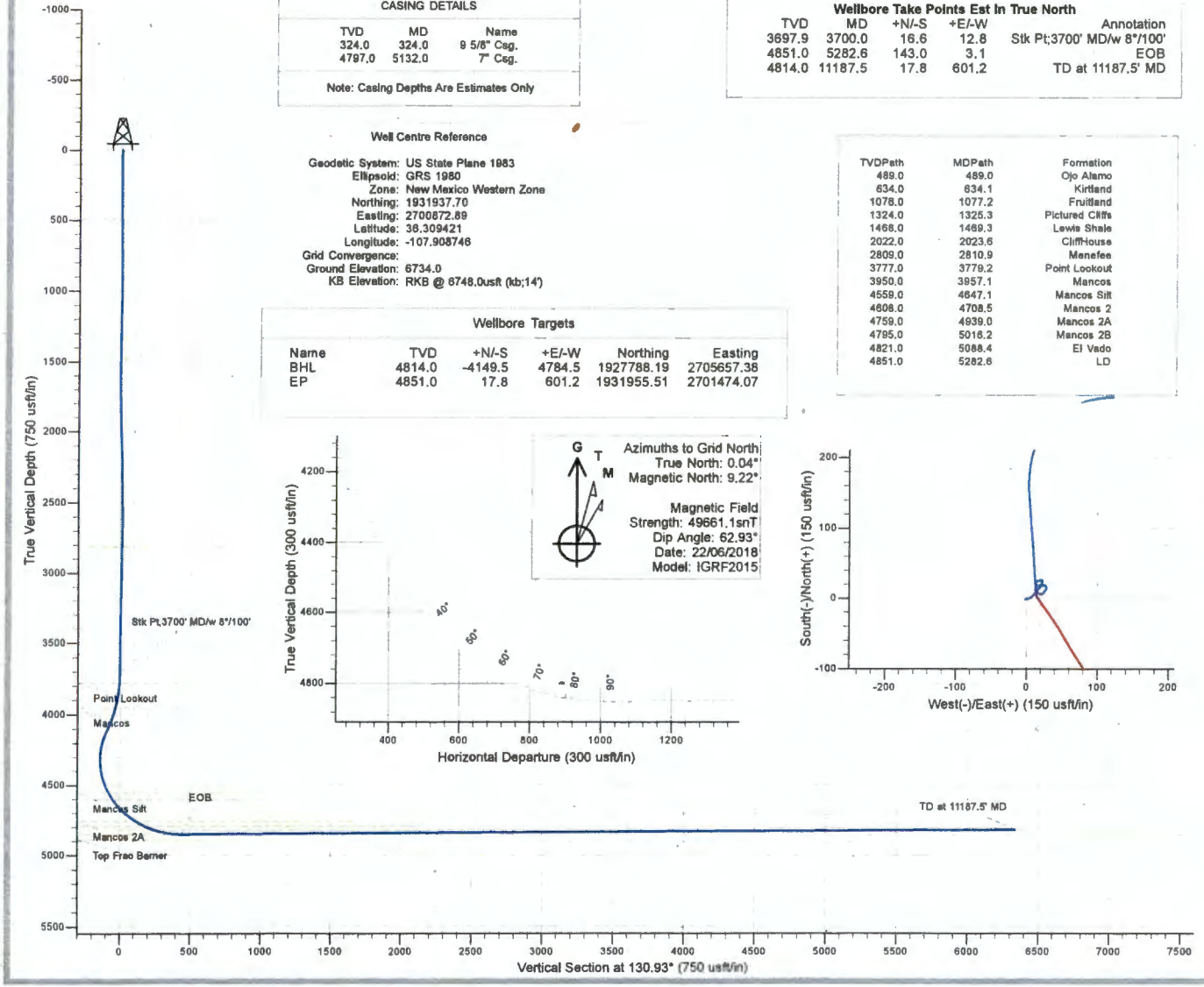
Wellbore Targets

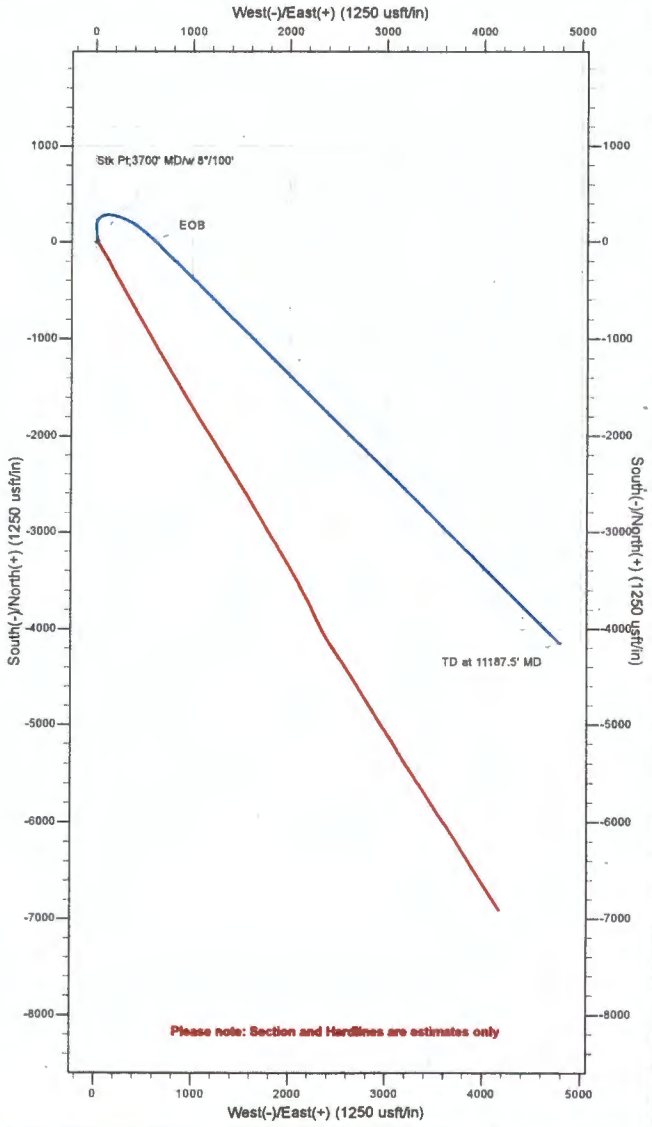
Name	TVD	+N/-S	+E/-W	Northing	Easting
BHL	4814.0	-4149.5	4784.5	1927788.19	2705657.38
EP	4851.0	17.8	601.2	1931955.51	2701474.07

TVDPath	MDPath	Formation
489.0	489.0	Ojo Alamo
634.0	634.1	Kirtland
1078.0	1077.2	Fruitland
1324.0	1325.3	Pictured Cliffs
1466.0	1469.3	Lewis Shale
2022.0	2023.6	CliffHouse
2809.0	2810.9	Menefee
3777.0	3779.2	Point Lookout
3950.0	3957.1	Mancos
4559.0	4647.1	Mancos Silt
4606.0	4708.5	Mancos 2
4759.0	4939.0	Mancos 2A
4795.0	5016.2	Mancos 2B
4821.0	5088.4	El Vado
4851.0	5282.6	LD

Azimuths to Grid North
True North: 0.04°
Magnetic North: 9.22°

Magnetic Field
Strength: 49661.1snT
Dip Angle: 62.93°
Date: 22/06/2018
Model: IGRF2015





Database:	WellPlan Services	**Local Co-ordinate Reference:**	Well Pinon 306 ST
Company:	Juniper Resources, LLC.	**TVD Reference:**	RKB @ 6748.0usft (kb;14')
Project:	San Juan County NM (NAD 83)	**MD Reference:**	RKB @ 6748.0usft (kb;14')
Site:	Sec 16 24N 10W	**North Reference:**	Grid
Well:	Pinon 306 ST	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Sidetrack		
Design:	#5		

Project	San Juan County NM (NAD 83)		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Sec 16 24N 10W				
Site Position:		**Northing:**	1,931,937.70 usft	**Latitude:**	36.309421
From:	Lat/Long	**Easting:**	2,700,872.89 usft	**Longitude:**	-107.908747
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0.04 °

Well	Pinon 306 ST					
Well Position	**+N/-S**	0.0 usft	**Northing:**	1,931,937.70 usft	**Latitude:**	36.309421
	+E/-W	0.0 usft	**Easting:**	2,700,872.89 usft	**Longitude:**	-107.908747
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	6,734.0 usft

Wellbore	Sidetrack			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	22/06/2018	9.17	62.93	49,661

Design	#5			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	3,700.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	130.93

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
3,700.0	0.6	182.22	3,697.9	16.6	12.8	0.00	0.00	0.00	0.00	
4,139.6	34.6	355.69	4,111.6	143.0	3.1	8.00	7.75	39.47	173.56	
5,282.6	90.0	134.89	4,851.0	17.8	601.2	10.10	4.85	12.18	133.64	EP
5,291.6	90.4	134.89	4,851.0	11.5	607.5	4.00	4.00	0.00	0.00	
11,187.5	90.4	134.89	4,814.0	-4,149.5	4,784.5	0.00	0.00	0.00	0.00	BHL

Database:	WellPlan Services	**Local Co-ordinate Reference:**	Well Pinon 306 ST
Company:	Juniper Resources, LLC.	**TVD Reference:**	RKB @ 6748.0usft (kb;14')
Project:	San Juan County NM (NAD 83)	**MD Reference:**	RKB @ 6748.0usft (kb;14')
Site:	Sec 16 24N 10W	**North Reference:**	Grid
Well:	Pinon 306 ST	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Sidetrack		
Design:	#5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Stk Pt;3700' MD/w 8°/100'										
3,700.0	0.6	182.22	3,697.9	-3,050.1	16.6	12.8	-1.2	0.00	0.00	0.00
Point Lookout										
3,779.2	5.8	355.16	3,777.0	-2,971.0	20.2	12.5	-3.8	8.00	6.60	218.34
3,800.0	7.4	355.30	3,797.6	-2,950.3	22.6	12.3	-5.5	8.00	8.00	0.67
3,900.0	15.4	355.55	3,895.6	-2,852.4	42.4	10.7	-19.7	8.00	8.00	0.25
Mancos										
3,957.1	20.0	355.61	3,950.0	-2,798.0	59.7	9.4	-32.0	8.00	8.00	0.10
4,000.0	23.4	355.64	3,989.8	-2,758.2	75.6	8.2	-43.3	8.00	8.00	0.06
4,100.0	31.4	355.68	4,078.5	-2,669.5	121.5	4.7	-76.1	8.00	8.00	0.04
4,139.6	34.6	355.69	4,111.6	-2,636.4	143.0	3.1	-91.4	8.00	8.00	0.03
4,200.0	30.7	4.37	4,162.5	-2,585.5	175.5	3.0	-112.8	10.10	-6.51	14.36
4,300.0	25.9	23.26	4,250.8	-2,497.2	221.1	13.5	-134.6	10.10	-4.80	18.89
4,400.0	24.3	46.94	4,341.6	-2,406.4	255.3	37.2	-139.1	10.10	-1.59	23.68
4,500.0	26.5	70.08	4,432.1	-2,315.9	277.0	73.3	-126.1	10.10	2.20	23.14
4,600.0	31.7	88.00	4,519.6	-2,228.4	285.5	120.7	-95.9	10.10	5.21	17.92
Mancos Silt										
4,647.1	34.8	94.51	4,559.0	-2,189.0	284.9	146.5	-76.0	10.10	6.67	13.85
4,700.0	38.7	100.67	4,601.4	-2,146.6	280.7	177.8	-49.5	10.10	7.33	11.62
Mancos 2										
4,708.5	39.4	101.56	4,608.0	-2,140.0	279.6	183.1	-44.9	10.10	7.96	10.46
4,800.0	46.7	109.77	4,674.9	-2,073.1	262.5	243.0	11.6	10.10	8.04	8.98
4,900.0	55.3	116.69	4,737.8	-2,010.2	231.6	314.2	85.6	10.10	8.56	6.92
Mancos 2A										
4,939.0	58.7	119.00	4,759.0	-1,989.0	216.3	343.1	117.4	10.10	8.80	5.91
5,000.0	64.2	122.28	4,788.1	-1,959.9	189.0	389.1	170.1	10.10	8.93	5.39
Mancos 2B										
5,016.2	65.6	123.10	4,795.0	-1,953.0	181.1	401.5	184.6	10.10	9.00	5.06
El Vado										
5,088.4	72.2	126.56	4,821.0	-1,927.0	142.6	456.7	251.6	10.10	9.07	4.78
5,100.0	73.2	127.08	4,824.4	-1,923.6	136.0	465.6	262.6	10.10	9.12	4.56
5,200.0	82.4	131.44	4,845.5	-1,902.5	74.2	541.1	360.2	10.10	9.16	4.36
EOB - LD										
5,282.6	90.0	134.89	4,851.0	-1,897.0	17.8	601.2	442.5	10.10	9.20	4.18
5,291.6	90.4	134.89	4,851.0	-1,897.0	11.5	607.5	451.5	4.00	4.00	0.00
5,300.0	90.4	134.89	4,850.9	-1,897.1	5.5	613.5	459.8	0.00	0.00	0.00
5,400.0	90.4	134.89	4,850.3	-1,897.7	-65.0	684.3	559.6	0.00	0.00	0.00
5,500.0	90.4	134.89	4,849.7	-1,898.3	-135.6	755.2	659.4	0.00	0.00	0.00
5,600.0	90.4	134.89	4,849.0	-1,899.0	-206.2	826.0	759.1	0.00	0.00	0.00
5,700.0	90.4	134.89	4,848.4	-1,899.6	-276.8	896.9	858.9	0.00	0.00	0.00
5,800.0	90.4	134.89	4,847.8	-1,900.2	-347.3	967.7	958.6	0.00	0.00	0.00
5,900.0	90.4	134.89	4,847.2	-1,900.8	-417.9	1,038.6	1,058.4	0.00	0.00	0.00
6,000.0	90.4	134.89	4,846.5	-1,901.5	-488.5	1,109.4	1,158.2	0.00	0.00	0.00
6,100.0	90.4	134.89	4,845.9	-1,902.1	-559.1	1,180.3	1,257.9	0.00	0.00	0.00
6,200.0	90.4	134.89	4,845.3	-1,902.7	-629.6	1,251.1	1,357.7	0.00	0.00	0.00
6,300.0	90.4	134.89	4,844.6	-1,903.4	-700.2	1,321.9	1,457.4	0.00	0.00	0.00

Database:	WellPlan Services	**Local Co-ordinate Reference:**	Well Pinon 306 ST
Company:	Juniper Resources, LLC.	**TVD Reference:**	RKB @ 6748.0usft (kb;14')
Project:	San Juan County NM (NAD 83)	**MD Reference:**	RKB @ 6748.0usft (kb;14')
Site:	Sec 16 24N 10W	**North Reference:**	Grid
Well:	Pinon 306 ST	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Sidetrack		
Design:	#5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,400.0	90.4	134.89	4,844.0	-1,904.0	-770.8	1,392.8	1,557.2	0.00	0.00	0.00
6,500.0	90.4	134.89	4,843.4	-1,904.6	-841.4	1,463.6	1,657.0	0.00	0.00	0.00
6,600.0	90.4	134.89	4,842.8	-1,905.2	-911.9	1,534.5	1,756.7	0.00	0.00	0.00
6,700.0	90.4	134.89	4,842.1	-1,905.9	-982.5	1,605.3	1,856.5	0.00	0.00	0.00
6,800.0	90.4	134.89	4,841.5	-1,906.5	-1,053.1	1,676.2	1,956.2	0.00	0.00	0.00
6,900.0	90.4	134.89	4,840.9	-1,907.1	-1,123.6	1,747.0	2,056.0	0.00	0.00	0.00
7,000.0	90.4	134.89	4,840.3	-1,907.7	-1,194.2	1,817.9	2,155.8	0.00	0.00	0.00
7,100.0	90.4	134.89	4,839.6	-1,908.4	-1,264.8	1,888.7	2,255.5	0.00	0.00	0.00
7,200.0	90.4	134.89	4,839.0	-1,909.0	-1,335.4	1,959.5	2,355.3	0.00	0.00	0.00
7,300.0	90.4	134.89	4,838.4	-1,909.6	-1,405.9	2,030.4	2,455.0	0.00	0.00	0.00
7,400.0	90.4	134.89	4,837.8	-1,910.2	-1,476.5	2,101.2	2,554.8	0.00	0.00	0.00
7,500.0	90.4	134.89	4,837.1	-1,910.9	-1,547.1	2,172.1	2,654.6	0.00	0.00	0.00
7,600.0	90.4	134.89	4,836.5	-1,911.5	-1,617.7	2,242.9	2,754.3	0.00	0.00	0.00
7,700.0	90.4	134.89	4,835.9	-1,912.1	-1,688.2	2,313.8	2,854.1	0.00	0.00	0.00
7,800.0	90.4	134.89	4,835.2	-1,912.8	-1,758.8	2,384.6	2,953.8	0.00	0.00	0.00
7,900.0	90.4	134.89	4,834.6	-1,913.4	-1,829.4	2,455.5	3,053.6	0.00	0.00	0.00
8,000.0	90.4	134.89	4,834.0	-1,914.0	-1,900.0	2,526.3	3,153.4	0.00	0.00	0.00
8,100.0	90.4	134.89	4,833.4	-1,914.6	-1,970.5	2,597.1	3,253.1	0.00	0.00	0.00
8,200.0	90.4	134.89	4,832.7	-1,915.3	-2,041.1	2,668.0	3,352.9	0.00	0.00	0.00
8,300.0	90.4	134.89	4,832.1	-1,915.9	-2,111.7	2,738.8	3,452.6	0.00	0.00	0.00
8,400.0	90.4	134.89	4,831.5	-1,916.5	-2,182.3	2,809.7	3,552.4	0.00	0.00	0.00
8,500.0	90.4	134.89	4,830.9	-1,917.1	-2,252.8	2,880.5	3,652.2	0.00	0.00	0.00
8,600.0	90.4	134.89	4,830.2	-1,917.8	-2,323.4	2,951.4	3,751.9	0.00	0.00	0.00
8,700.0	90.4	134.89	4,829.6	-1,918.4	-2,394.0	3,022.2	3,851.7	0.00	0.00	0.00
8,800.0	90.4	134.89	4,829.0	-1,919.0	-2,464.6	3,093.1	3,951.4	0.00	0.00	0.00
8,900.0	90.4	134.89	4,828.3	-1,919.7	-2,535.1	3,163.9	4,051.2	0.00	0.00	0.00
9,000.0	90.4	134.89	4,827.7	-1,920.3	-2,605.7	3,234.7	4,151.0	0.00	0.00	0.00
9,100.0	90.4	134.89	4,827.1	-1,920.9	-2,676.3	3,305.6	4,250.7	0.00	0.00	0.00
9,200.0	90.4	134.89	4,826.5	-1,921.5	-2,746.8	3,376.4	4,350.5	0.00	0.00	0.00
9,300.0	90.4	134.89	4,825.8	-1,922.2	-2,817.4	3,447.3	4,450.2	0.00	0.00	0.00
9,400.0	90.4	134.89	4,825.2	-1,922.8	-2,888.0	3,518.1	4,550.0	0.00	0.00	0.00
9,500.0	90.4	134.89	4,824.6	-1,923.4	-2,958.6	3,589.0	4,649.8	0.00	0.00	0.00
9,600.0	90.4	134.89	4,824.0	-1,924.0	-3,029.1	3,659.8	4,749.5	0.00	0.00	0.00
9,700.0	90.4	134.89	4,823.3	-1,924.7	-3,099.7	3,730.7	4,849.3	0.00	0.00	0.00
9,800.0	90.4	134.89	4,822.7	-1,925.3	-3,170.3	3,801.5	4,949.0	0.00	0.00	0.00
9,900.0	90.4	134.89	4,822.1	-1,925.9	-3,240.9	3,872.3	5,048.8	0.00	0.00	0.00
10,000.0	90.4	134.89	4,821.4	-1,926.6	-3,311.4	3,943.2	5,148.6	0.00	0.00	0.00
10,100.0	90.4	134.89	4,820.8	-1,927.2	-3,382.0	4,014.0	5,248.3	0.00	0.00	0.00
10,200.0	90.4	134.89	4,820.2	-1,927.8	-3,452.6	4,084.9	5,348.1	0.00	0.00	0.00
10,300.0	90.4	134.89	4,819.6	-1,928.4	-3,523.2	4,155.7	5,447.8	0.00	0.00	0.00
10,400.0	90.4	134.89	4,818.9	-1,929.1	-3,593.7	4,226.6	5,547.6	0.00	0.00	0.00
10,500.0	90.4	134.89	4,818.3	-1,929.7	-3,664.3	4,297.4	5,647.4	0.00	0.00	0.00
10,600.0	90.4	134.89	4,817.7	-1,930.3	-3,734.9	4,368.3	5,747.1	0.00	0.00	0.00
10,700.0	90.4	134.89	4,817.1	-1,930.9	-3,805.5	4,439.1	5,846.9	0.00	0.00	0.00
10,800.0	90.4	134.89	4,816.4	-1,931.6	-3,876.0	4,509.9	5,946.6	0.00	0.00	0.00
10,900.0	90.4	134.89	4,815.8	-1,932.2	-3,946.6	4,580.8	6,046.4	0.00	0.00	0.00

Database:	WellPlan Services	**Local Co-ordinate Reference:**	Well Pinon 306 ST
Company:	Juniper Resources, LLC.	**TVD Reference:**	RKB @ 6748.0usft (kb;14')
Project:	San Juan County NM (NAD 83)	**MD Reference:**	RKB @ 6748.0usft (kb;14')
Site:	Sec 16 24N 10W	**North Reference:**	Grid
Well:	Pinon 306 ST	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Sidetrack		
Design:	#5		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,000.0	90.4	134.89	4,815.2	-1,932.8	-4,017.2	4,651.6	6,146.2	0.00	0.00	0.00
11,100.0	90.4	134.89	4,814.5	-1,933.5	-4,087.7	4,722.5	6,245.9	0.00	0.00	0.00
TD at 11187.5' MD										
11,187.5	90.4	134.89	4,814.0	-1,934.0	-4,149.5	4,784.5	6,333.2	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL - plan hits target center - Point	0.0	360.00	4,814.0	-4,149.5	4,784.5	1,927,788.19	2,705,657.38	36.298031	-107.892499
EP - plan hits target center - Point	0.0	360.00	4,851.0	17.8	601.2	1,931,955.52	2,701,474.07	36.309471	-107.906706

Formations

Measured Depth (usft)	Vertical Depth (usft)	Subsea Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
489.0	489.0	6,259.0	Ojo Alamo			
634.1	634.0	6,114.0	Kirtland			
1,077.2	1,076.0	5,672.0	Fruitland			
1,325.3	1,324.0	5,424.0	Pictured Cliffs			
1,469.3	1,468.0	5,280.0	Lewis Shale			
2,023.6	2,022.0	4,726.0	CliffHouse			
2,810.9	2,809.0	3,939.0	Menefee			
3,779.2	3,777.0	2,971.0	Point Lookout			
3,957.1	3,950.0	2,798.0	Mancos			
4,647.1	4,559.0	2,189.0	Mancos Silt			
4,708.5	4,608.0	2,140.0	Mancos 2			
4,939.0	4,759.0	1,989.0	Mancos 2A			
5,016.2	4,795.0	1,953.0	Mancos 2B			
5,088.4	4,821.0	1,927.0	El Vado			
5,282.6	4,851.0	1,897.0	LD			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,700.0	3,697.9	16.6	12.8	Stk Pt;3700' MD/w 8°/100'
5,282.6	4,851.0	143.0	3.1	EOB
11,187.5	4,814.0	17.8	601.2	TD at 11187.5' MD

LOCATION: PINON UNIT 306H
COUNTY: SAN JUAN COUNTY
WELL: PINON UNIT 306H ST

JUNIPER RESOURCES EXPLORATION CO. LLC

WELL SUMMARY

DATE: 7/9/2018
RIG: TBD
GLE:
RKBE:

MWD / LWD	OPEN HOLE LOGGING	FORMATION	DEPTH TVD	DEPTH MD	WELLBORE SCHEMATIC	HOLE SIZE	CASING / CEMENTING SPECS	MUD SPECS	DEVIATION INFO.
None Survey every 100'	None	Nacimiento	0	0			**EXISTING** 9 5/8", 36 ppf, J-55, LTC Cmt to Surface (Circ. 10 bbls)	Fresh Wtr. 8.3 - 9.2 ppg	Vertical < 1 deg
		9 5/8" Csg (Exisiting)	**324'**	**324'**		**12 1/4"**			
		Ojo Alamo	489'						
		Kirtland	634'				**EXISTING** 7", 23 ppf, J-55, LT&C Cmt'd w/ 725 sx Cmt to Surface (Circ 40 bbls)		
	No OH Logs	Fruitland	1,076'			8 3/4" (exisiting)			Vertical < 1 deg
		Pictured Cliffs	1,324'						
		Lewis Shale	1,468'					WBM 8.7 - 8.8ppg	
		Cliffhouse	2,022'						
		Menefee	2,809'						
	Mud Logger on at 3,700'								
Survey Every 30' thru curve		**KOP**	**3,700'**	**3,700'**	Set CIBP and Whipstock. Cut 6 1/8" Window & drill 6 1/8" hole to TD				
		Point Lookout	3,777'						Build / Turn 8 - 10 deg/100' DLS
		Mancos	3,950'			6 1/8" (sidetrack)			
		Mancos Silt	4,559'						
		Mancos 2							
		Mancos 2A							
		Mancos 2B							
		7" Csg (Exisiting)	**4,798'**	**5,132'**					
Survey every stand to TD unless directed otherwise by Geologist MWD Gamma	No OH Logs	El Vado	4,821'		150' overlap at liner top 5,900' Drilled Lateral				TD = 11,188' MD
		Hz Target	**4,851'**	**11,188'**					
		Frac Barrier	4,891'			6 1/8"	**4 1/2", 11.6 ppf, P-110, LTC/BTC** TOC @ Liner Top ~ 3,550' MD 50% Excess 1 Stage - 940 sx, 13.5 ppg 35:65 Dak G	WBM 8.4 - 10 ppg	

Powell, Brandon, EMNRD

From: Justin Davis <Justin.Davis@jnpresources.com>
Sent: Thursday, August 2, 2018 2:06 PM
To: Powell, Brandon, EMNRD; Amanda Palmer; Vermersch, Amy H, EMNRD; Pickford, Katherine, EMNRD; Perrin, Charlie, EMNRD
Cc: Matt Strickler
Subject: RE: Well PINON UNIT 306H
Attachments: PU 306H Proposed WBD.pdf

This will be a permanent plug. The original lateral was only partially completed and didn't produce. We're going to cement in a long string on the sidetrack lateral as well.

See attached WBD.

Thanks,

Justin Davis
Juniper Resources, LLC.

-----Original Message-----
From: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Sent: Thursday, August 02, 2018 2:43 PM
To: Justin Davis <Justin.Davis@jnpresources.com>; Amanda Palmer <Amanda.Palmer@jnpresources.com>; Vermersch, Amy H, EMNRD <AmyH.Vermersch@state.nm.us>; Pickford, Katherine, EMNRD <Katherine.Pickford@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Cc: Matt Strickler <Matt.Strickler@jnpresources.com>
Subject: RE: Well PINON UNIT 306H

Are looking at this being a permanent plug or a temporary plug? Can I get a wellbore schematic that shows everything?

Thank You

Brandon Powell
Office: (505) 334-6178 ext. 116
"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

-----Original Message-----
From: Justin Davis <Justin.Davis@jnpresources.com>
Sent: Thursday, August 2, 2018 1:40 PM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Amanda Palmer <Amanda.Palmer@jnpresources.com>; Vermersch, Amy H, EMNRD <AmyH.Vermersch@state.nm.us>; Pickford, Katherine, EMNRD <Katherine.Pickford@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Cc: Matt Strickler <Matt.Strickler@jnpresources.com>
Subject: RE: Well PINON UNIT 306H

Brandon,

Plans are to fill with brine and set a CIBP right on top of the liner to isolate the existing lateral. Then we'll have another CIBP up at our kickoff point for the sidetrack so we'll have secondary isolation.

Regards,

Justin Davis
Juniper Resources, LLC.

-----Original Message-----
From: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Sent: Thursday, August 02, 2018 2:32 PM
To: Amanda Palmer <Amanda.Palmer@jnpresources.com>; Vermersch, Amy H, EMNRD <AmyH.Vermersch@state.nm.us>; Pickford, Katherine, EMNRD <Katherine.Pickford@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>
Cc: Justin Davis <Justin.Davis@jnpresources.com>; Matt Strickler <Matt.Strickler@jnpresources.com>
Subject: RE: Well PINON UNIT 306H

Good afternoon Amanda,

What are Juniper's plans for the existing lateral?

Thank You

Brandon Powell
Office: (505) 334-6178 ext. 116
"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

-----Original Message-----
From: Amanda Palmer <Amanda.Palmer@jnpresources.com>
Sent: Thursday, August 2, 2018 10:27 AM
To: Vermersch, Amy H, EMNRD <AmyH.Vermersch@state.nm.us>; Pickford, Katherine, EMNRD <Katherine.Pickford@state.nm.us>; Perrin, Charlie, EMNRD <charlie.perrin@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Justin Davis <Justin.Davis@jnpresources.com>; Matt Strickler <Matt.Strickler@jnpresources.com>
Subject: Well PINON UNIT 306H

Good morning,

I wanted to check on the status of the attached sundry and C-102 for the sidetrack of the Pinon Unit 306H, we plan to spud Monday.

Thank you,
Amanda

Amanda Palmer
Petroleum Engineer

Direct: 469.729.8183
Cell: 512.626.1026
3333 Lee Parkway | Suite 210 | Dallas, TX 75219 Amanda.Palmer@jnpresources.com www.jnpresources.com

-----Original Message-----
From: Amanda Palmer
Sent: Monday, July 30, 2018 2:26 PM
To: Vermersch, Amy H, EMNRD <AmyH.Vermersch@state.nm.us>
Cc: 'Matt Strickler' <Matt.Strickler@jnpresources.com>
Subject: FW: Well PINON UNIT 306H

Amy,

Please see the attached approved sundry and certified C-102 for the Pinon Unit 306H.

Thank you,
Amanda

Amanda Palmer
Petroleum Engineer

Direct: 469.729.8183
Cell: 512.626.1026
3333 Lee Parkway | Suite 210 | Dallas, TX 75219 Amanda.Palmer@jnpresources.com www.jnpresources.com

-----Original Message-----
From: jwsavage@blm.gov <jwsavage@blm.gov>
Sent: Monday, July 30, 2018 1:35 PM
To: Amanda Palmer <Amanda.Palmer@jnpresources.com>; Justin Davis <Justin.Davis@jnpresources.com>
Subject: Well PINON UNIT 306H

The sundry for Other Sundry Notice you submitted has been approved by the BLM. Your original Electronic Commerce (EC) transmission was assigned ID 426831. Please be sure to open and save all attachments to this message, since they contain important information.

WELLBORE SCHEMATIC

Dev

CURRENT

WELL NAME: PINON UNIT 306H		**SPOT:** 1277' FSL, 318' FWL		**OPERATOR:** JREX		**SPUD DATE:** 8-May-17	
API NO: 30-045-35638		**LOCATION:** SEC. 16, T24N, R10W		**ZONE:** MANCOS		***RR* DATE:** 14-Jun-17	
WI: 100%		**FIELD:** PINON UNIT		**ELEVATION:** 6,746' +14' KB		**MICU:**	
RI:		**COUNTY:** SAN JUAN		**TD:** 12,570'		**COMPL DATE:**	
		STATE: NEW MEXICO		**PBTD:**		**STATUS:** SI - WO Remedial Work	

PIPE RECORD / **CEMENT & HOLE DATA**

CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SZE	DEPTH	SXS	TYPE	TOC
Cond												
Surface	9.625"	J-55	LTC	36.00#	0'	324'	16	12.250"	330'	1,050	Type I-II	Surface
Interm.	7.000"	J-55	LTC	23.00#	0'	5,132'	149	8.750"	5,200'	795	Hal-Cem	Surface
Prod	4.500"	P-110	LTC	11.60#	4444'	12,034'	169	6.125"	12,570'			
Tbg												
Tbg												

WELL HISTORY

DATE	WORK DETAIL	PROD. RESULTS

9-5/8" @ 324'

8-3/4" Hole

5 1/2" casing to surface

4 1/2" x 5 1/2" XO @ ~ 3650'

TD @ 11,188'

Whipstock @3707'

CIBP @ 3718'

CIBP @ 4,270'

TOL (PBR) - 4,444'

Baker ZXP Packer - 4,463'

25'

SQZ Holes 4539-41' 2 ft - 8.25" EH

4 1/2" Csg @ 11,188' MD
Cemented to 3560' MD

Stage 8 - 10,294 - 450'
Stage 7 - 10,800 - 805'
Stage 6 - 10,708 - 862'
Stage 5 - 10,912 -
Stage 4 - 11,118 - 271'
Stage 3 - 11,324 - 480'
Stage 2 - 11,530 - 595'
Stage 1 - 11,736-802'

7" Csg @ 5,132' MD (4,796' TVD)
Cement to Surface

4-1/2" Csg @ 12,034' MD (4,716' TVD)
Cement to Liner top

6-1/8" Hole to 12,570' MD
(4,673' TVD)