orm 3160-5 une 2015)	UNITED STATES			1 APPROVED NO. 1004-0137		
DI	EPARTMENT OF THE INTE UREAU OF LAND MANAGEN			January 31, 2018		
	NOTICES AND REPORTS		NMNM101058			
abandoned we		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO				
SUBMIT IN	7. If Unit or CA/Agr NMNM133481	eement, Name and/or No. X				
<ol> <li>Type of Well</li> <li>☑ Oil Well</li> <li>☑ Gas Well</li> <li>☑ Ot</li> </ol>	her		8. Well Name and No PINON UNIT 30			
2. Name of Operator JUNIPER RESRC EXPLRN (	Contact: VA	NESSA CAMERON deltech.com	9. API Well No. 30-045-35638-	00-X1		
<sup>3a.</sup> Address 3624 OAK LAWN AVE STE 2 DALLAS, TX 75219		. Phone No. (include area code) 1: 303-945-1049	10. Field and Pool of PINON UNIT F	10. Field and Pool or Exploratory Area PINON UNIT HZ		
4. Location of Well (Footage, Sec., 1	<i>T., R., M., or Survey Description)</i>		11. County or Parish	, State		
Sec 16 T24N R10W SWSW 1	277FSL 0318FWL		SAN JUAN CC	DUNTY, NM		
12. CHECK THE A	PPROPRIATE BOX(ES) TO	INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA		
TYPE OF SUBMISSION		TYPE OF	ACTION			
Notice of Intent	□ Acidize	Deepen	D Production (Start/Resume)	UWater Shut-Off		
Subsequent Report	□ Alter Casing	Hydraulic Fracturing	□ Reclamation	U Well Integrity		
	Casing Repair	□ New Construction	□ Recomplete	Other Change to Original		
Final Abandonment Notice	<ul> <li>Change Plans</li> <li>Convert to Injection</li> </ul>	Plug and Abandon Plug Back	Temporarily Abandon Water Disposal	PD		
Attach the Bond under which the wo following completion of the involved	rk will be performed or provide the l d operations. If the operation results bandonment Notices must be filed or final inspection. n Co. LLC respectfully reques C-102 form and well plat, drill j enced well. If additional inform	Bond No. on file with BLM/BIA in a multiple completion or reco ily after all requirements, includi sts review and approval by plan, geoprognosis, directi		e filed within 30 days 60-4 must be filed once		
Please be advised that Item 5	•	e for the entire company n		02-		
read Juniper Resources Explo BLM'S APPROVAL OR AC ACTION DOES NOT RELI OPERATOR FROM OBTA AUTHORIZATION REQU ON FEDERAL AND INDIA	DIATION CO. LLC CEPTANCE OF THIS EVE THE LESSEE AND INING ANY OTHER IRED FOR OPERATIONS	CO	NDITIONS OF APPRO re to previously issued stipula			
<ol> <li>I hereby certify that the foregoing is</li> <li>Co</li> </ol>	Electronic Submission #3738	EXPLRN CO LLC, sent to the	e Farmington			
Name (Printed/Typed) MATT ST	RICKLER	Title VICE PF	RESIDENT-LAND			
Signature (Electronic	Submission)	Date 04/25/20	)17			
	THIS SPACE FOR I	FEDERAL OR STATE (	OFFICE USE			
				Date 05/02/201		
Approved By_JACK SAVAGE						
Approved By_JACK SAVAGE inditions of approval, if any, are attached tify that the applicant holds legal or equich would entitle the applicant to condu-	uitable title to those rights in the subj		on			
nditions of approval, if any, are attache tify that the applicant holds legal or eq	uitable title to those rights in the subjuct operations thereon. U.S.C. Section 1212, make it a crim	e for any person knowingly and		or agency of the United		

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NMOCD

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

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 67410 Phone: (505) 334-6176 Fax: (505) 334-6170 DISTRICT IV

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

R

#### 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

PINON UNIT HZ (OIL) <sup>1</sup> API Number <sup>8</sup> Pool Code 30-045-35638 98102 Well Number <sup>4</sup> Property Code Property Name 314246 PINON UNIT 306H OGRID No. <sup>®</sup>Operator Name Elevation 371654 JUNIPER RESOURCES EXPLORATION CO. LLC. 6732 <sup>10</sup> Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Range County WEST SAN JUAN 24 N 10 W 1277 SOUTH 318 M 16 <sup>11</sup> Bottom Hole Location If Different From Surface North/South line UL or lot no. Section Township Range Lot Idn Feet from the Feet from the East/West line County 24 N 10 W 1229 NORTH 350 EAST SAN JUAN A 28 Dedicated Acres PRETNATED SMCMUS LIMITS 1/2 SAC 16, ALL of SGC 11, W2 SAC 20, TANK, MARK, 102 SAC 16, ALL of SGC 11, W2 SAC 20, TANK, MARK, 102 MARKS MOB.44 ACMES - W2 REFA, M1 SAC 9-10, RFSC 17, N7266 22 J as 17 249, REFG- UNCOMED UNIT <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code 10 Order No. 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 17 OPERATOR CERTIFICATION LEGEND: 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 O = SURFACE LOCATION ш С . = BOTTOM HOLE LOCATION SECTION 16 318 ш 20. 50. ed bottom hole location or has a right to drill this X = LANDING POINT 2699.3 well at this location pursuant to a contract with an = FOUND 1932 U.S.G.L.O. 3'59' Ε 00°04' owner of such a mineral or working interest, or to a 635 BRASS CAP ntary pooling agreement or a compulsory pooling orde heretolo entered by the division. z S 89°53'47" W z 2652.17 SURFACE 643' SEC. 16, T24N, RIOW 1277 1277' FSL, 318' FWL S 89°0'3'07" W 3 211 730'-LAT: 36.3094124° N 2536.45' 54 LONG: 107.9087406° W ш Michle **NAD 83** 58. 1°37'5 2683. LAT: 36.3094014° N 2617. 29'34'41" 8277.95' ε LONG: 107.9081216° W E-mail Address 7 NAD 27 Z LANDING POINT 18 SURVEYOR CERTIFICATION SECTION 21 ш SEC. 16, T24N, RIOW 730' FSL, 643' FWL w hereby certify that the well location shown on this plat 000 .9 œ as plotted from field notes of actual surveys made by m 2615. LAT: 36.3079127° N or under my supervision, and that the same is true and correct to the best of my belief. 2610. LONG: 107.9076371° W **NAD 83** z N 89°54'55" W 26|1.87' LAT: 36.3079018° N 2 3-20-17 SHALL W. TINDEE LONG: 107.9070181° W Date of Survey **NAD 27** N 89°52'42" W 1229' 3 Signature and 3 3 2615.46 BOTTOM HOLE 29. 2020 SEC. 28, T24N, RIOW 2603. 2612. 1229' FNL, 350' FEL LAT: 36.2881439° N 350' LONG: 107.8937535° W H-21-17 STONAL SURVEY z z NAD 83 SECTION 28 LAT: 36.2881327° N 7070 LONG: 107.8931351° W **NAD 27** 

> OIL CONS. DIV DIST. 3 MAY 0 5 2017

Sundry Drilling Program

JUNIPER RESOURCES EXPLORATION CO. LLC.

3624 Oak Lawn Avenue Suite 222 Dallas, TX 75219

#### **PINON UNIT 306H**

Surface Location: 1277' FSL & 318' FWL Section 16, T24N, R10W Proposed GL Elev = 6734' Lat. = 36.309412° N Long. = 107.908740° W NAD83 San Juan County, New Mexico

Proposed Top of Production Location: 1277' FSL & 318' FWL Section 16, T24N, R10W Proposed Bottom Hole Location (7" Casing Landing Pt.): 730' FSL & 643' FWL Section 16, T24N, R10W Proposed Bottom Hole Location (Lateral #1): 1229' FNL & 350' FEL Section 28, T24N, R10W San Juan County, New Mexico

PREVIOUSLY APPROVED PERMIT AS ENCANA PINION UNIT M16-2410 4H API NO. 30-045-35638

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

Depths are	e referenced to	GL of 6734	ft
Formation	TVD (ft)	MD (ft)	Subsea (ft)
Nacimiento Fn.	0	0	
Ojo Alamo Ss.	241	241	6,507
Kirtland Shale	365	365	6,383
Fruitland Coal	918	918	5,830
Pictured Cliffs Ss.	1,354	1,354	5,394
Lewis Shale	1,581	1,581	5,167
CliffHouse Ss.	2,096	2,096	4,652
Menefee Fn.	2,692	2,692	4,056
Point Lookout Ss.	3,775	3,775	2,973
Mancos Shale	3,992	3,992	2,756
Mancos A Fn.	4,788	4,788	1,960
Mancos B Fn.	4,815	4,815	1,933
Lateral TD	4,774	13,499	1,974

#### 1. ESTIMATED TOPS OF GEOLOGICAL MARKERS

Note: Geologic markers will be updated based on drilling and geology operations

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Depths	are referenced	to GL of 673	34 ft
Formation	TVD (ft)	MD (ft)	Substance
Nacimiento Fn.	0	0	
Ojo Alamo Ss.	241	241	Water
Kirtland Shale	365	365	
Fruitland Coal	918	918	Water/Gas
Pictured Cliffs Ss.	1,354	1,354	Oil/Gas
Lewis Shale	1,581	1,581	Gas
CliffHouse Ss.	2,096	2,096	Oil/Gas
Menefee Fn.	2,692	2,692	Water/Gas
Point Lookout Ss.	3,775	3,775	Oil/Gas
Mancos Shale	3,992	3,992	Oil/Gas
Mancos A Fn.	4,788	4,788	Oil/Gas
Mancos B Fn.	4,815	4,815	Oil/Gas
Lateral TD	4,774	13,499	Oil/Gas

### 2. ESTIMATED DEPTHS OF POTENTIAL WATER, OIL, GAS & OTHER MINERAL BEARING ZONES

Possible Aquifers: <220' Oil Shale: None Expected. Oil & Gas: Primary objective is the Mancos formation

**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.

Intermediate casing will be set at 4853' TVD and cemented to surface.

### 3. PRESSURE CONTROL

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 will meet the minimum standards outlined in Order 2 and 43 CFR Part 3160.

- a) Pressure control equipment and configuration will be designed to meet 2M psi standards
  - a. BHP = 1844 psi (based on offset BHP data of 0.38 psi/ft pressure gradient)
  - b. Max Surface pressure = 776 psi (assuming partially evacuated hole w/ 0.22 psi/ft pressure gradient)
- b) A 2,000 psi double ram hydraulic BOP will be used (see attached diagram)
- c) Function test and visual inspection of the BOP will be conducted every 24 hrs and recorded on IADC log.
- d) BOP and accessories testing procedures shall conform to Onshore Order No. 2
- e) The annular BOP will be pressure tested to a minimum of 50% of its rated working pressure
- f) Blind and Pipe Rams/BOP will be tested against a test plug to 100% of its rated working pressure
- g) Pressure tests are required before drilling out from under all casing strings set and cemented in place
- BOP controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.
- i) BOP controls will be located on the rig floor at a location accessible to the driller. Master controls shall be on the ground at the accumulator and will have the capability to function all preventers.
- j) The accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor
- k) Kill line, fill line and line to choke manifold will be a minimum of 2-inch
- I) Choke manifold will be 3M psi and contain a 2" positive choke, 2" adjustable choke and a pressure gauge.
- m) Hand wheels shall be installed on all ram preventers
- n) Safety valves and wrenches (with subs for drill string connections) shall be available on the rig floor at all times
- o) Inside BOP or float sub will also be available on the rig floor at all times

The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE.

### 4. CASING AND CEMENTING PROGRAM

The proposed casing and cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones and any prospectively valuable mineral deposits. Any isolating medium other than cement shall receive approval prior to use. Casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during drilling operations.

Included below is the Operator's proposed casing program which includes size, grade, weight, type of threading and coupling and setting depth for each string and its condition. Minimum design criteria and hole sizes are also included herein.

Casing	Depth (MD)	Hole Size	Csg Size	Weight	Grade	Coupling	Condition
Surface	0' - 320'	12 1/4"	9 5/8"	36 ppf	J or K55	STC	New
Intermediate	0' – 5,223'	8 3/4"	7"	23 ppf	J or K55	LTC	New
Production Liner	5,073' - 13,558'	6 1/8"	4 1/2"	11.6 ppf	P-110	LTC	New

	Casing	Casing String Casing Strenght Properties				Minimu	n Design	Factors	
Size	Weight	Grade	Coupling	Collapse (psi)	Burst (psi)	Tensile (klbs)	Collapse	Burst	Tension
9 5/8"	36 ppf	J55	STC	2,020	3,520	394	1.125	1.0	1.2
7"	23 ppf	J55	LTC	3,270	4,360	313	1.125	1.0	1.2
4 1/2"	11.6 ppf	P110	LTC	7,560	10,690	279	1.125	1.0	1.2

## 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.

Surface casing shall have a minimum of 1 centralizer per joint on the bottom three (3) joints, starting with the shoe joint for a total of (4) minimum centralizers. Centralizers will be placed 10' above the shoe on the shoe joint, on the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> casing collars.

The intermediate casing will be centralized using 1 centralizer the first 6 jts and spaced appropriately through the curve section of the well-bore and then spaced +/- 1 centralizer / 4 jts through the remainder of the cement column, using approximately 40 centralizers.

\*Surface casing maybe preset with a preset rig (MOTE).

The proposed cementing program is as follows:

Casing	Depth (MD)	Cement Volume (sacks)	Cement Type & Yield	Designed TOC	Centralizers
Surface	0' - 320'	170 sx (incl. 100% excess)	HalCEM™ System + 2% CaCl + 0.125 lb/sk Poly-E-Flake; 15.8 ppg, 1.174 cu.ft./sk	Surface	1 per joint on bottom 3 joints
Intermediate	0' - 5,223'	Lead: 540 sx Tail: 196 sx (incl. 70% excess)	Lead: HalCEM <sup>™</sup> System; 12.3 ppg, 1.95 cu. Ft./sk Tail: VariCEM <sup>™</sup> System + 5 lbs/sk Kol-Seal + 0.125 Ibs/sk Poly-E-Flake; 13.5 ppg, 1.30 cu. Ft./sk	Surface	1 per joint on 1st 6 joints + 1 per 4 joints for remainder
Production Liner	5,073' - 13,499'	791 sx (incl. 30% excess)	ExtendaCEM™ System; 13.3 ppg, 1.36 cu. Ft./sk	Liner Top (5,073')	

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected.

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

Other Cementing Notes:

- Pea Gravel or other material shall not be used to fill up around the surface casing in the event cement fall back occurs.
- The surface casing shall in all cases be cemented back to surface. In the event cement does not circulate to
  surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to
  surface. No more than the top 100' will be remediated with 1" line if fall back occurs. Anything more than 100' will
  require plan approval to remediate.
- If returns are lost and/or cement is not brought to surface <u>and no</u> fallback occurs, a cement bond log (CBL) will be required to determine the quality of the job prior to drilling ahead (see OO2).
- Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a pre-flush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- Production liner will be cemented.

### 5. WELL PLAN & DIRECTIONAL PROGRAM

The proposed horizontal well will have a kick off point at 4,217'. Directional plans attached.

Desription	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	4,774' / 13,499'	Mancos

Juniper Resources

### 6. DRILLING FLUIDS PROGRAM

Interval (MD)	Hole Section	Hole Size	Туре	MW	VIS	FL	PV	YP	PH
0'-320'	Surface	12-1/4"	FW/Gel	8.4-9.0	32-44	NC	8	12	9
320'-4516'	Vertical to KOP	8-3/4"	Potassium Sulfate	9.0-9.5	38-42	6	14	14	9.5
4516'-5223'	Curve	8-3/4"	Potassium Sulfate	9.0-9.6	38-42	6	14	14	9.5
5223'-13499'	Horizontal	6-1/8"	Potassium Sulfate	8.3-9.0	34-40	6	8	8	9.5

Sufficient weighting material will be on hand to weight mud up to 10.5 PPG, if required.

The formula for weight up with barite is listed below: Sacks of Barite per 100 bbl of mud =  $1470 \times (W2 - W1) \div (35 - W2)$ 

Where; W1 = current mud weight

W2 = new mud weight

#### Sacks = 1470 x (10.5 - 8.4)/ (35-10.5) = 126 sx \* 5 (500bbls minimum) = 630sx

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

A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of as outlined is surface use plane location will be lined in accordance with the Surface Use Plan of Operations.

### 7. TESTING, LOGGING AND CORING

- a) Drill stem testing none anticipated
- b) Coring none anticipated
- c) Mud Logging Mud loggers will be operational from 3,000' to TD of the horizontal hole.
  - a. Gas detecting equipment will be installed and operational and hydrocarbon gas will be monitored for pore pressure changes from base of surface casing to TD.
  - b. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume.
- d) Logging see below:

#### **Cased Hole**

CBL/CCL/GR will be run as the start of the completion process if cement is not circulated to surface during the cementing of the intermediate casing string. The CBL will confirm the quality of the cement bond and the actual TOC. If either of these two data points were not satisfactory per BLM, State and standard procedure, remedial cement work, if required, will be performed after consultation and approval of a plan from both the BLM and State agencies. The logged interval should extend from at least 50 feet below the KOP, if practical, to 200 feet above the top of cement. In no case shall the cement bond log begin above the KOP.

### 8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

Normal to subnormal pressure gradient to TD.

MASP and casing design parameters determined using 0.38 psi/ft.

Bottom Hole pressure = 4853' TVD x 0.38 psi/ft = 1844 psi (based on measured offset bottom hole pressures).

Maximum expected BHT @ 4853' TVD: ~152° F

No hydrogen sulfide gas is anticipated, however, if H2S is encountered, the guidelines in Onshore Order No. 6 will be followed.

### 9. OTHER FACETS OF PROPOSED OPERATION & ANTICIPATED START DATE

Directional Plans: Horizontal directional well, directional plans attached.

**Completion:** Completion design will be dependent on open-hole log evaluation from the pilot hole and the actual horizontal section drilled. Generally, the completion will consist of a plug and perf hydraulic fracturing operation consistent with best practices in the same area of the San Juan Basin. The frac job will likely consist of between 30 and 40 stages. Each stage will consist of approximately 330,000 lbs of 20/40 sand and 1,300 bbls of water. Pumping rates will be dependent on surface treating pressures but should be around 50 bpm down 4 ½" casing. All fracturing fluids will be water based and contain nitrogen foam. After the frac job, plugs will be drilled out within 10 days and production tubing will be run. Production tubing is expected to be 2 3/8" or 2 7/8".

**Timing:** Drilling is estimated to commence in late June, or early July 2017 depending on rig availability. The drilling rig has been identified and timing will depend on current operations for other Operators. It is anticipated that the drilling of this well will take 14-20 days and completion operations will begin within 60 days of rig release depending on fracture treatment schedules with various pumping service companies.

### CLOSED-LOOP SYSTEM DESIGN PLAN

The closed-loop system will consist of a series of temporary above-ground storage tanks and/or haul-off bins suitable for holding the cuttings and fluids from drilling operations. The closed- loop system will not entail temporary pits, below-grade storage tanks, below-grade sumps, or drying pads.

Design considerations include:

- The closed-loop system will be signed in accordance with 19.15.17.11 NMAC
- The closed-loop system storage tanks will be of adequate volume to ensure confinement of all fluids and provide sufficient freeboard to prevent uncontrolled releases.
- Topsoil will be salvaged and stored for use in reclamation activities
- The closed-loop system storage tanks will be placed in bermed secondary containment sized to contain a minimum of 110% of the volume of the largest storage tank.

#### CLOSED-LOOP SYSTEM OPERATING & MAINTENANCE PLAN

The closed-loop system will be operated and maintained to contain liquids and solids; minimize the amount of drilling fluids and cuttings that require disposal; maximize the amount of drilling fluid recycled and reused in the drilling process; isolate drilling wastes from the environment; prevent contamination of fresh water; and protect public health and the environment.

Operation and maintenance considerations include:

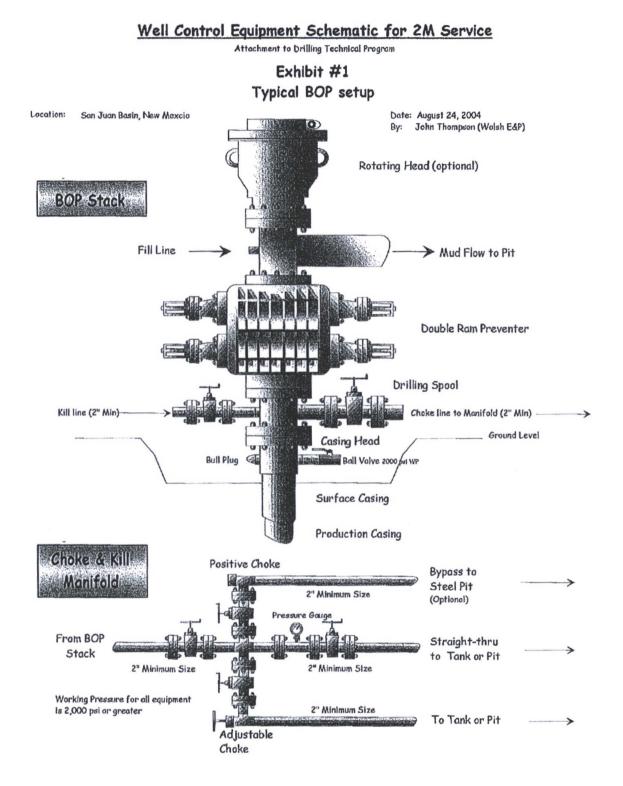
- Fluid levels will be maintained to provide sufficient freeboard to prevent over-topping.
- Visual inspections will be conducted on a daily basis to identify any potential leaks and to ensure that the closedloop system storage tanks have sufficient freeboard to prevent over-topping.
- Only drilling fluids or cuttings intrinsic to, used by, or generated from, drilling operations will be stored in the closedloop system storage tanks. Hazardous waste, miscellaneous solid waste, and/or debris will not be stored in the storage tanks.
- The OCD District Office will be notified within 48 hours of discovery of a leak in the closed-loop drilling system. If
  a leak is discovered, all liquid will be removed within 48 hours and the damage repaired.

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### CLOSED-LOOP SYSTEM CLOSURE PLAN

The closed-loop system will be closed in accordance with 19.15.17.13 NMAC. Closure considerations include:

- Drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical.
- Residual fluids will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at Industrial Ecosystem, Inc. waste disposal facilities.
- Remaining cuttings or sludges will be vacuumed from the storage tanks and disposed of at the Envirotech, Inc and/or Industrial Ecosystem, Inc. waste disposal facilities.
- Storage tanks will be removed from the well location during the rig move.
- The well pad will be reclaimed and seeded in accordance with subsections G, Hand I of 19.15.17.13 NMAC.



Planning Report

Company: Project: Site: Well: Wellbore: Design:	Juniper Res NEW MEXI S16-T24N-F	6-T24N-R10W North Reference: Grid Non Unit 306H Survey Calculation Method: Minimum Curvature		(TBD) (TBD)						
Project	NEWN	IEXICO		an a						
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Well	Pinon U	Init 306H	n maar oo nadaan to haroo oo goodaa Magaalaadh calling in dacha dooladh	e na tanàna mandritra mandritra dia kaominina dia kaominina dia mandritra dia mandritra dia mandritra dia kaomi Ny faritr'o dia kaominina d	an a	non Dari version di interproces di successi di di su Casta di Antonia di Anto	nes al ar sub, visite Companya Amerikan Lakah Jawa Ing Penganakan	anna da anti-atti sa da anda anda anda Kishing Kishing ang Bangari da Angara da Ang	lan sanaharan di kanan dan sana ka	
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Design	Mo Plan #2	HDGM						),		nT)
		HDGM		4/10/2017		9.10		) 62.88		nT)
Design Audit Notes:	Plan #2	HDGM 2		4/10/2017 :: P	(°)	9.10 Tie +E (u	(°	) 62.88 Din	(	nT)
Design Audit Notes: Version: Vertical Section	Plan #2	HDGM 2	Phase epth From (TV (usft)	4/10/2017 :: P	(°) LAN +N/-S (usft)	9.10 Tie +E (u	(* On Depth: :/-W sft)	) 62.88 Din	( 0.00 ection (°)	nT)
Design Audit Notes: Version: Vertical Section Plan Sections Measured	Plan #2	HDGM 2	Phase epth From (TV (usft)	4/10/2017 :: P	(°) LAN +N/-S (usft)	9.10 Tie +E (u	(* On Depth: :/-W sft)	) 62.88 Din	( 0.00 ection (°)	nT)
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth	Plan #2 : Inclination	HDGM 2 D	Phase lepth From (TV (usft) 0.00 Vertica! Depth	4/10/2017 :: P 'D) +N/-S	(°) *LAN +N/-S (usft) 0.00 +E/-W	9.10 Tie +E (u 0. Dogleg Rate	(* • On Depth: /-W sft) 00 Build Rate	) 62.88 Din 15 Turn Rate	( 0.00 ection (°) 50.31 TFO	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00	Plan #2 : Inclination (°).	HDGM 2 D Azimuth (°)	Phase epth From (TV (usft) 0.00 Vertical Depth (usft)	4/10/2017 e: P (D) +N/-S (usft) 0.00 0.00	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00	e On Depth: :/-W sft) 00 Build Rate (°/100usft) 0.00 0.00	) 62.88 Dire 15 Turn Rate (*/100usft) 0.00 0.00	( 0.00 ection (°) i0.31 TFO (°) 0.00 0.00	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02	Plan #2 : Inclination (°) 0.00 0.00 3.50	HDGM 2 Azimuth (°) 0.00 0.00 44.43	Phase epth From (TV (usft). 0.00 Vertical Depth (usft). 0.00 500.00 674.91	4/10/2017 e: P (D) +N/-S (usft) 0.00 0.00 3.82	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 3.74	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00	(* • On Depth: :/-W • sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00	) 62.88 Dire 15 Turn Rate (*/100usft) 0.00 0.00 0.00	( 0.00 ection (°) 50.31 TFO (°) 0.00 0.00 44.43	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48	Plan #2 : Inclination (°) 0.00 0.00 3.50 3.50	HDGM 2 Azimuth (°) 0.00 0.00 44.43 44.43	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09	4/10/2017 :: P 'D) +N/-S (usft) 0.00 0.00 3.82 10.46	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.3.74 10.26	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00 0.00	(* • On Depth: :/-W • sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00	) 62.88 Dire 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) 50.31 TFO (°) 0.00 0.00 44.43 0.00	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50	Plan #2	HDGM 2 Azimuth (°) 0.00 0.00 44.43 44.43 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00	4/10/2017 :: P 'D) +N/-S (usft) 0.00 0.00 3.82 10.46 14.28	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.3.74 10.26 14.00	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00 0.00 2.00	(* • On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 -2.00	) 62.88 Din 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) i0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50	Plan #2 : Inclination (°) 0.00 0.00 3.50 3.50 0.00 0.00 0.00	HDGM 2 Azimuth (°) 0.00 0.00 44.43 44.43 0.00 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00	4/10/2017 :: P 'D) +N/-S (usft) 0.00 0.00 0.00 3.82 10.46 14.28 14.28	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.3.74 10.26 14.00 14.00	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00 0.00 2.00 0.00	(* • On Depth: :/-W • sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 -2.00 0.00	) 62.88 Dim 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) i0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50 5,223.61	Plan #2 : Inclination (°) 0.00 0.00 3.50 3.50 0.00 0.00 0.00 90.55	HDGM 2 Azimuth (°) 0.00 0.00 44.43 44.43 0.00 0.00 151.90	Phase repth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00 4,853.59	4/10/2017 :: P 'D) +N/-S (usft) 0.00 0.00 0.00 3.82 10.46 14.28 14.28 14.28 14.28 -552.69	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00 0.00 2.00 0.00 2.00 0.00 9.00	(* • On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 -2.00 0.00 9.00	) 62.88 Dim 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	( 0.00 ection (°) i0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00 151.90	nT) 49,766
Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50	Plan #2 : Inclination (°) 0.00 0.00 3.50 3.50 0.00 0.00 0.00	HDGM 2 Azimuth (°) 0.00 0.00 44.43 44.43 0.00 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00	4/10/2017 :: P 'D) +N/-S (usft) 0.00 0.00 0.00 3.82 10.46 14.28 14.28	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.3.74 10.26 14.00 14.00	9.10 Tie +E (u 0. Dogleg Rate (?/100usft) 0.00 0.00 2.00 0.00 2.00 0.00	(* • On Depth: :/-W • sft) 00 Build Rate (*/100usft) 0.00 0.00 0.00 -2.00 0.00	) 62.88 Dim 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) i0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00 151.90 -89.97	nT) 49,766

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Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Pinon Unit 306H
Company:	Juniper Resources Exploration CO	TVD Reference:	14' @ 6748.00usft (TBD)
Project:	NEW MEXICO	MD Reference:	14' @ 6748.00usft (TBD)
Site:	S16-T24N-R10W	North Reference:	Grid
Well:	Pinon Unit 306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / HZ		
Design:	Plan #2		

Planned Survey	Survey	ed	ann	PI
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
241.00	0.00	0.00	241.00	0.00	0.00	0.00	0.00		Ojo Alamo
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
365.00	0.00	0.00	365.00	0.00	0.00	0.00	0.00		Kirtland
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00		KOP @ 500'
600.00	2.00	44.43	599.98	1.25	1.22	-0.48	2.00	2.00	
675.02	3.50	44.43	674.91	3.82	3.74	-1.46	2.00	2.00	EOB; INC=3.5°
700.00	3.50	44.43	699.84	4.91	4.81	-1.88	0.00	0.00	
800.00	3.50	44.43	799.66	9.27	9.08	-3.55	0.00	0.00	
827.48	3.50	44.43	827.09	10.46	10.26	-4.01	0.00	0.00	Start Drop -2.00
900.00	2.05	44.43	899.52	12.97	12.72	-4.97	2.00	-2.00	
918.53	1.68	44.43	918.04	13.40	13.14	-5.13	2.00	-2.00	Fruitland
1,000.00	0.05	44.43	999.50	14.28	14.00	-5.47	2.00	-2.00	
1,002.50	0.00	0.00	1,002.00	14.28	14.00	-5.47	2.00	-2.00	EOD; INC=0°
1,100.00	0.00	0.00	1,099.50	14.28	14.00	-5.47	0.00	0.00	
1,200.00	0.00	0.00	1,199.50	14.28	14.00	-5.47	0.00	0.00	
1,300.00	0.00	0.00	1,299.50	14.28	14.00	-5.47	0.00	0.00	
1,354.55	0.00	0.00	1,354.04	14.28	14.00	-5.47	0.00	0.00	Pictured Cliffs
1,400.00	0.00	0.00	1,399,50	14.28	14.00	-5.47	0.00	0.00	
1,500.00	0.00	0.00	1,499.50	14.28	14.00	-5.47	0.00	0.00	
1,581.55	0.00	0.00	1,581.04	14.28	14.00	-5.47	0.00		Lewis Shale
1,600.00	0.00	0.00	1,599.50	14.28	14.00	-5.47	0.00	0.00	
1,700.00	0.00	0.00	1,699,50	14.28	14.00	-5.47	0.00	0.00	
1,800.00	0.00	0.00	1,799.50	14.28	14.00	-5.47	0.00	0.00	
1,900.00	0.00	0.00	1,899.50	14.28	14.00	-5.47	0.00	0.00	
2,000.00	0.00	0.00	1,999.50	14.28	14.00	-5.47	0.00	0.00	
2,096.55	0.00	0.00	2,096.04	14.28	14.00	-5.47	0.00		Cliffhouse
						E 47	0.00	0.00	
2,100.00	0.00	0.00	2,099.50	14.28	14.00	-5.47	0.00	0.00	
2,200.00	0.00	0.00	2,199.50	14.28 14.28	14.00 14.00	-5.47	0.00	0.00	
2,400.00	0.00	0.00	2,299.50	14.28	14.00	-5.47	0.00	0.00	
2,500.00	0.00	0.00	2,499.50	14.28	14.00	-5.47	0.00	0.00	
2,600.00	0.00	0.00	2,599.50	14.28	14.00	-5.47	0.00	0.00	
2,692.55 2,700.00	0.00	0.00	2,692.04 2,699.50	14.28	14.00 14.00	-5.47	0.00	0.00	Menefee
2,700.00	0.00	0.00	2,899.50	14.28	14.00	-5.47	0.00	0.00	
2,900.00	0.00	0.00	2,899.50	14.28	14.00	-5.47	0.00	0.00	
3,000.00	0.00	0.00	2,999.50	14.28	14.00	-5.47	0.00	0.00	
3,100.00	0.00	0.00	3,099.50	14.28	14.00	-5.47 -5.47	0.00	0.00	
3,200.00	0.00	0.00	3,199.50 3,299.50	14.28 14.28	14.00	-5.47	0.00	0.00	
3,300.00 3,400.00	0.00	0.00	3,299.50	14.28	14.00 14.00	-5.47	0.00	0.00	
1 10 10 10									
3,500.00	0.00	0.00	3,499.50	14.28	14.00	-5.47	0.00	0.00	
3,600.00	0.00	0.00	3,599.50	14.28	14.00	-5.47	0.00	0.00	
3,700.00	0.00	0.00	3,699.50	14.28	14.00	-5.47	0.00	0.00	
3,775.55	0.00	0.00	3,775.04	14.28	14.00	-5.47	0.00		Point Lookout
3,800.00	0.00	0.00	3,799.50	14.28	14.00	-5.47	0.00	0.00	
3,900.00	0.00	0.00	3,899.50	14.28	14.00	-5.47	0.00	0.00	
3,992.55	0.00	0.00	3,992.04	14.28	14.00	-5.47	0.00	0.00	Marcos

COMPASS 5000.1 Build 78

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Pinon Unit 306H
Company:	Juniper Resources Exploration CO	TVD Reference:	14' @ 6748.00usft (TBD)
Project:	NEW MEXICO	MD Reference:	14' @ 6748.00usft (TBD)
Site:	S16-T24N-R10W	North Reference:	Grid
Well:	Pinon Unit 306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / HZ		
Design:	Plan #2		

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
4,000.00	0.00	0.00	3,999.50	14.28	14.00	-5.47	0.00	0.00	
4,100.00	0.00	0.00	4,099.50	14.28	14.00	-5.47	0.00	0.00	
4,200.00	0.00	0.00	4,199.50	14.28	14.00	-5.47	0.00	0.00	
4,217.50	0.00	0.00	4,217.00	14.28	14.00	-5.47	0.00	0.00	Start Build 9.00
4,300.00	7.42	151.90	4,299.27	9.57	16.51	-0.14	9.00	9.00	
4,400.00	16.42	151.90	4,397.01	-8.64	26.24	20.50	9.00	9.00	
4,500.00	25.42	151.90	4,490.32	-40.11	43.04	56.16	9.00	9.00	
4,600.00	34.42	151.90	4,576.90	-84.07	66.51	105.98	9.00	9.00	
4,700.00	43.42	151.90	4,654.61	-139.44	96.08	168.72	9.00	9.00	
4,800.00	52.42	151.90	4,721.56	-204.85	131.00	242.84	9.00	9.00	
4,900.00	61.42	151.90	4,776.07	-278.69	170.43	326.52	9.00	9.00	
4,919.86	63.21	151.90	4,785.30	-294.20	178.71	344.09	9.00	9.00	Marcos A
4,985.54	69.12	151.90	4,811.83	-347.18	207.00	404.13	9.00	9.00	Marcos B
5,000.00	70.42	151.90	4,816.82	-359.15	213.39	417.69	9.00	9.00	
5,100.00	79.42	151.90	4,842.81	-444.24	258.82	514.11	9.00	9.00	
5,154.82	84.36	151.90	4,850.54	-492.09	284.38	568.34	9.00	9.00	Marcos B Target
5,200.00	88.42	151.90	4,853.38	-531.86	305.61	613.41	9.00	9.00	
5,223.61	90.55	151.90	4,853.59	-552.69	316.73	637.01	9.00	9.00	LP @ 4853' TVD; 90.55°
5,300.00	90.55	150.37	4,852.86	-619.58	353.61	713.39	2.00	0.00	
5,302.95	90.55	150.31	4,852.83	-622.14	355.06	716.33	2.00	0.00	END OF TURN
5,400.00	90.55	150.31	4,851.90	-706.45	403.13	813.38	0.00	0.00	
5,500.00	90.55	150.31	4,850.94	-793.32	452.65	913.38	0.00	0.00	
5,600.00	90.55	150.31	4,849.97	-880.19	502.17	1,013.37	0.00	0.00	
5,700.00	90.55	150.31	4,849.01	-967.07	551.70	1,113.37	0.00	0.00	
5,800.00	90.55	150.31	4,848.05	-1,053.94	601.22	1,213.36	0.00	0.00	
5,900.00	90.55	150.31	4,847.09	-1,140.81	650.74	1,313.36	0.00	0.00	
6,000.00	90.55	150.31	4,846.13	-1,227.68	700.27	1,413.35	0.00	0.00	
6,100.00	90.55	150.31	4,845.17	-1,314.55	749.79	1,513.35	0.00	0.00	
6,200.00	90.55	150.31	4,844.21	-1,401.42	799.31	1,613.34	0.00	0.00	
6,300.00	90.55	150.31	4,843.25	-1,488.29	848.84	1,713.34	0.00	0.00	
6,400.00	90.55	150.31	4,842.29	-1,575.16	898.36	1,813.33	0.00	0.00	
6,500.00	90.55	150.31	4,841.33	-1,662.03	947.89	1,913.33	0.00	0.00	
6,600.00	90.55	150.31	4,840.37	-1,748.90	997.41	2,013.33	0.00		
6,700.00	90.55	150.31	4,839.41	-1,835.77	1,046.93	2,113.32	0.00	0.00	
6,800.00	90.55	150.31	4,838.44	-1,922.64	1,096.46	2,213.32	0.00	0.00	
6,900.00	90.55	150.31	4,837.48	-2,009.51	1,145.98	2,313.31	0.00	0.00	
7,000.00	90.55	150.31	4,836.52	-2,096.38	1,195.50	2,413.31 2,513.30	0.00	0.00	
7,100.00	90.55	150.31	4,835.56	-2,183.25	1,245.03				
7,200.00	90.55	150.31	4,834.60	-2,270.12	1,294.55	2,613.30	0.00	0.00	
7,300.00	90.55	150.31	4,833.64	-2,357.00	1,344.07	2,713.29	0.00	0.00	
7,400.00	90.55	150.31	4,832.68	-2,443.87	1,393.60	2,813.29	0.00	0.00	
7,500.00	90.55	150.31	4,831.72	-2,530.74	1,443.12	2,913.28	0.00	0.00	
7,600.00	90.55	150.31	4,830.76	-2,617.61	1,492.64	3,013.28			
7,700.00	90.55	150.31	4,829.80	-2,704.48	1,542.17	3,113.27	0.00	0.00	
7,800.00	90.55	150.31	4,828.84	-2,791.35	1,591.69	3,213.27	0.00	0.00	
7,900.00	90.55	150.31	4,827.88	-2,878.22	1,641.21	3,313.27	0.00	0.00	
8,000.00	90.55	150.31	4,826.92	-2,965.09	1,690.74	3,413.26	0.00	0.00	
8,100.00	90.55	150.31	4,825.95	-3,051.96	1,740.26	3,513.26	0.00	0.00	
8,200.00	90.55	150.31	4,824.99	-3,138.83	1,789.78	3,613.25	0.00	0.00	
8,300.00	90.55	150.31	4,824.03	-3,225.70	1,839.31	3,713.25	0.00	0.00	
8,400.00	90.55	150.31	4,823.07	-3,312.57	1,888.83	3,813.24	0.00	0.00	
8,500.00	90.55	150.31	4,822.11	-3,399.44	1,938.35	3,913.24	0.00	0.00	

COMPASS 5000.1 Build 78

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Pinon Unit 306H
Company:	Juniper Resources Exploration CO	TVD Reference:	14' @ 6748.00usft (TBD)
Project:	NEW MEXICO	MD Reference:	14' @ 6748.00usft (TBD)
Site:	S16-T24N-R10W	North Reference:	Grìd
Well:	Pinon Unit 306H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH / HZ		
Design:	Plan #2		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft	Build Rate (°/100u	Comments / Formations
8,600.00	90.55	150.31	4,821.15	-3,486.31	1,987.88	4,013.23	0.00	0.00	
8,700.00	90.55	150.31	4,820.19	-3,573.18	2,037.40	4,113.23	0.00	0.00	
8,800.00	90.55	150.31	4,819.23	-3,660.05	2,086.92	4,213.22	0.00	0.00	
8,900.00	90.55	150.31	4,818.27	-3,746.93	2,136.45	4,313.22	0.00	0.00	
9,000.00	90.55	150.31	4,817.31	-3,833.80	2,185.97	4,413.21	0.00	0.00	
9,100.00	90.55	150.31	4,816.35	-3,920.67	2,235.49	4,513.21	0.00	0.00	
9,200.00	90.55	150.31	4,815.39	-4,007.54	2,285.02	4,613.21	0.00	0.00	
9,300.00	90.55	150.31	4,814.42	-4,094.41	2,334.54	4,713.20	0.00	0.00	
9,400.00	90.55	150.31	4,813.46	-4,181.28	2,384.06	4,813.20	0.00	0.00	
9,500.00	90.55	150.31	4,812.50	-4,268.15	2,433.59	4,913.19	0.00	0.00	
9,600.00	90.55	150.31	4,811.54	-4,355.02	2,483.11	5,013.19	0.00	0.00	
9,700.00	90.55	150.31	4,810.58	-4,441.89	2,532.64	5,113.18	0.00	0.00	
9,800.00	90.55	150.31	4,809.62	-4,528.76	2,582.16	5,213.18	0.00	0.00	
9,900.00	90.55	150.31	4,808.66	-4,615.63	2,631.68	5,313.17	0.00	0.00	
10,000.00	90.55	150.31	4,807.70	-4,702.50	2,681.21	5,413.17	0.00	0.00	
10,100.00	90.55	150.31	4,806.74	-4,789.37	2,730.73	5,513.16	0.00	0.00	
10,200.00	90.55	150.31	4,805.78	-4,876.24	2,780.25	5,613.16	0.00	0.00	
10,300.00	90.55	150.31	4,804.82	-4,963.11	2,829.78	5,713.15	0.00	0.00	
10,400.00	90.55	150.31	4,803.86	-5,049.98	2,879.30	5,813.15	0.00	0.00	
10,500.00	90.55	150.31	4,802.89	-5,136.86	2,928.82	5,913.15	0.00	0.00	
10,600.00	90.55	150.31	4,801.93	-5,223.73	2,978.35	6,013.14	0.00	0.00	
10,700.00	90.55	150.31	4,800.97	-5,310.60	3,027.87	6,113.14	0.00	0.00	
10,800.00	90.55	150.31	4,800.01	-5,397.47	3,077.39	6,213.13	0.00	0.00	
10,900.00	90.55	150.31	4,799.05	-5,484.34	3,126.92	6,313.13	0.00	0.00	
11,000.00	90.55	150.31	4,798.09	-5,571.21	3,176.44	6,413.12	0.00	0.00	
11,100.00	90.55	150.31	4,797.13	-5,658.08	3,225.96	6,513.12	0.00	0.00	
11,200.00	90.55	150.31	4,796.17	-5,744.95	3,275.49	6,613.11	0.00	0.00	
11,300.00	90.55	150.31	4,795.21	-5,831.82	3,325.01	6,713.11	0.00	0.00	
11,400.00	90.55	150.31	4,794.25	-5,918.69	3,374.53	6,813.10	0.00	0.00	
11,500.00	90.55	150.31	4,793.29	-6,005.56	3,424.06	6,913.10	0.00	0.00	
11,600.00	90.55	150.31	4,792.33	-6,092.43	3,473.58	7,013.09	0.00	0.00	
11,700.00	90.55	150.31	4,791.37	-6,179.30	3,523.10	7,113.09	0.00	0.00	
11,800.00	90.55	150.31	4,790.40	-6,266.17	3,572.63	7,213.09	0.00	0.00	
11,900.00	90.55	150.31	4,789.44	-6,353.04	3,622.15	7,313.08	0.00	0.00	
12,000.00	90.55	150.31	4,788.48	-6,439.91	3,671.67	7,413.08	0.00	0.00	
12,100.00	90.55	150.31	4,787.52	-6,526.79	3,721.20	7,513.07	0.00	0.00	
12,200.00	90.55	150.31	4,786.56	-6,613.66	3,770.72	7,613.07	0.00	0.00	
12,300.00	90.55	150.31	4,785.60	-6,700.53	3,820.24	7,713.06	0.00	0.00	
12,400.00	90.55	150.31	4,784.64	-6,787.40	3,869.77	7,813.06	0.00	0.00	
12,500.00	90.55	150.31	4,783.68	-6,874.27	3,919.29	7,913.05	0.00	0.00	
12,600.00	90.55	150.31	4,782.72	-6,961.14	3,968.81	8,013.05	0.00	0.00	
12,700.00	90.55 90.55	150.31	4,781.76	-7,048.01	4,018.34	8,113.04	0.00	0.00	
12,800.00		150.31	4,780.80	-7,134.88	4,067.86	8,213.04			
12,900.00	90.55	150.31	4,779.84	-7,221.75	4,117.39	8,313.03	0.00	0.00	
13,000.00 13,100.00	90.55 90.55	150.31 150.31	4,778.87 4,777.91	-7,308.62 -7,395.49	4,166.91 4,216.43	8,413.03 8,513.03	0.00	0.00	
13,200.00	90.55	150.31	4,776.95	-7,482.36	4,265.96	8,613.02	0.00	0.00	
13,300.00	90.55	150.31	4,775.99	-7,569.23	4,315.48	8,713.02	0.00	0.00	
13,400.00	90.55	150.31	4,775.03	-7,656.10	4,365.00	8,813.01	0.00	0.00	
13,499.04	90.55	150.31	4,774.08	-7,742.14	4,414.05	8,912.05	0.00	0.00	TD at 13499.04

• 1

Planned Survey

COMPASS 5000.1 Build 78

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Junipe NEW S16-T	MEXICO 24N-R10W Unit 306H IZ	itt Users DB Exploration C			Local Co-ordir TVD Reference MD Reference North Referen Survey Calcula	: ce: ation Method:	Well Pinon U 14 @ 6748.0 14 @ 6748.0 Grid Minimum Cu	00usft (TBD) 00usft (TBD) rvature	
Targets										
Target Name - hit/miss targ - Shape	get	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Pinon Unit 306H	PBHL	0.00	0.00	4,774.08	-7,742.14	4,414.05	1,924,192.84	2,705,288.83	36.288153	-107.89374

testing

· • •

0.00 360.00 0.00 -9,120.25 4,763.50 1,922,814.73 2,705,638.28 - plan misses target center by 4981.28usft at 13499.04usft MD (4774.08 TVD, -7742.14 N, 4414.05 E) - Point

ormations					
	Measured Depth (usft)	Vertical Depth (usft)	Name Lithology	Dip (°)	Dip Direction (°)
	241.00	241.00	Ojo Alamo	-0.45	150.31
	365.00	365.00	Kirtland	-0.45	150.31
	918.53	918.00	Fruitland	-0.45	150.31
	1,354.55	1,354.00	Pictured Cliffs	-0.45	150.31
	1,581.55	1,581.00	Lewis Shale	-0.45	150.31
	2,096.55	2,096.00	Cliffhouse	-0.45	150.31
	2,692.55	2,692.00	Menefee	-0.45	150.31
	3,775.55	3,775.00	Point Lookout	-0.45	150.31
	3,992.55	3,992.00	Marcos	-0.45	150.31
	4,919.86	4,788.00	Marcos A	-0.45	150.31
	4,985.54	4,815.00	Marcos B	-0.45	150.31
	5,154.82	4,855.00	Marcos B Target	-0.45	150.31

Meas	sured	Vertical	Local Coord	inates	
De	pth	Depth	+N/-S	+E/-W	
(u	sft)	(usft)	(usft)	(usft)	Comment
	500.00	500.00	0.00	0.00	KOP @ 500'
	675.02	674.91	3.82	3.74	EOB; INC=3.5°
	827.48	827.09	10.46	10.26	Start Drop -2.00
1,	002.50	1,002.00	14.28	14.00	EOD; INC=0°
4.	217.50	4,217.00	14.28	14.00	Start Build 9.00
5,	223.61	4,853.59	-552.69	316.73	LP @ 4853' TVD; 90.55°
5,	302.95	4,852.83	-622.14	355.06	END OF TURN
13.	499.04	4,774.08	-7,742.14	4,414.05	TD at 13499.04

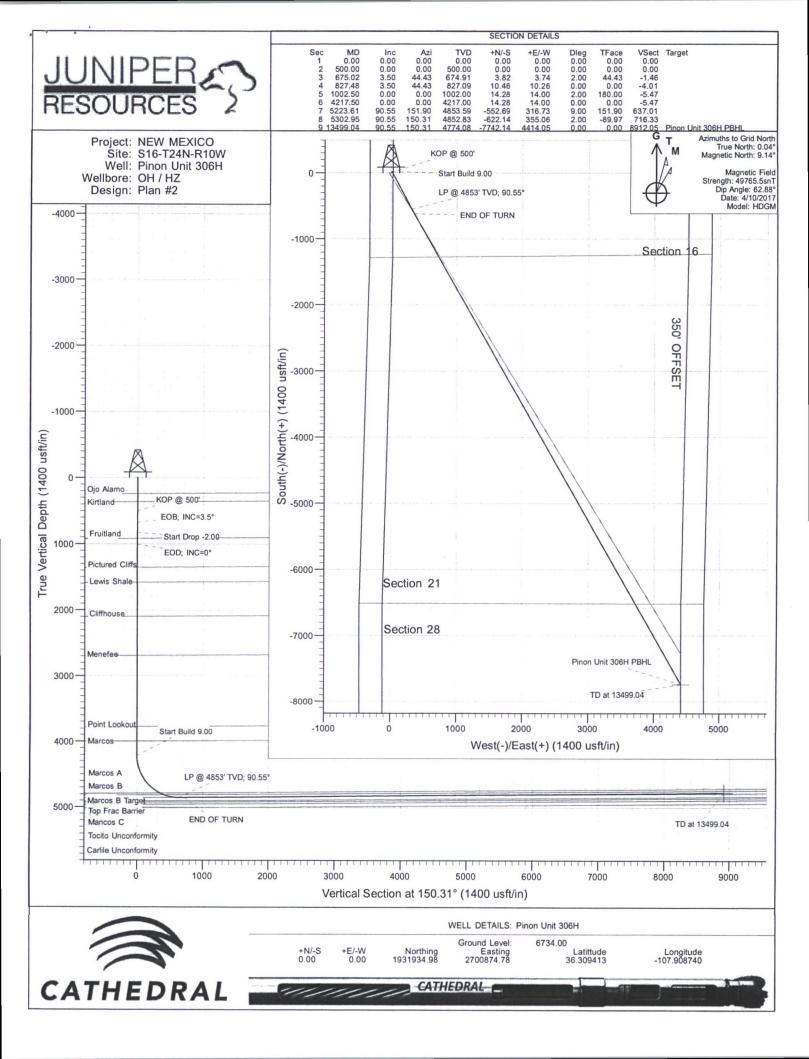
-107.892553

36.284368

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	The second second second	R10W	the state of the s		TVD Referen MD Referend North Refere	ce:	14 14 Gr	ell Pinon Unit 30 @ 6748.00usft @ 6748.00usft id nimum Curvatur	(TBD) (TBD)	
Project	NEWN	MEXICO								
Map System: Geo Datum: Map Zone:	North An	e Plane 1983 nerican Datum xico Western Zo			System Da	tum:	Me	ean Sea Level		
Site	S16-T2	24N-R10W	land and the state of the state		adela dalaria e e anterestador a	19-0-0-642-19-00-80-6-6-6-6- 	n dibile the production and a second second second	nos antenantenantenanten a la fil	-	a har de Sala de har an anger a har de Sala de Sala mante a serar a sur de serar de serar de Sala de Sa
Site Position: From: Position Uncer		/Long 0.00 us	Northi Eastin sft Slot R		2,700	,934.99 usft ,844.73 usft 13-3/16 "	Latitude: Longitude: Grid Converg	ence:		36.309413 -107.908842 -0.04 °
Well	Pinon L	Jnit 306H	na urupata adalah industrian di Japana			erne forte destaur false over the	a antigen an		ingenan para seguna (	
Well Position	+N/-S +E/-W			orthing: sting:		1,931,934.98 2,700,874.78		tude: gitude:		36.309413 -107.908740
Position Uncer	rtainty	0.0	0 usft We	ellhead Elevati	ion:	0.00	) usft Gro	und Level:		6,734.00 usft
Wellbore	OH / H	łZ	er names solden hand die bereitigen der Versteller Stater soller i Printer	e har on a star and a star a star a star a star a star a star a sta I a star i italia a star a s	i la constanta de la constanta da Telesciencia de la constanta da	anne, an ann an an ar Casta An	anten internet anten anten Anten anten ante	nan, san generalan serenci persensar Kiter dan dan serenci persena		
Wellbore Magnetics		łZ odel Name HDGM	Sampl	e Date 4/10/2017	Declina (°)		Dip A (°			Strength nT) 49,766
Magnetics	Mc	odel Name HDGM						)		nT)
Magnetics Design		odel Name HDGM						)		nT)
Magnetics	Mc	odel Name HDGM		4/10/2017		9.10		)		nT)
Magnetics Design Audit Notes:	Mc Plan #2	odel Name HDGM 2		4/10/2017 e: P	(°)	9.10 Tie +E (u	(*	) 62.88 Din	(	nT)
Magnetics Design Audit Notes: Version:	Mc Plan #2	odel Name HDGM 2	Phase epth From (T\ (usft)	4/10/2017 e: P	(*) PLAN +N/-S (usft)	9.10 Tie +E (u	(* • On Depth: :/-W sft)	) 62.88 Din	( 0.00 ection (°)	nT)
Magnetics Design Audit Notes: Version: Vertical Section	Mc Plan #2	odel Name HDGM 2	Phase epth From (T\ (usft)	4/10/2017 e: P	(*) PLAN +N/-S (usft)	9.10 Tie +E (u	(* • On Depth: :/-W sft)	) 62.88 Din	( 0.00 ection (°)	nT)
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth	Mc Plan #2 In: Inclination (°)	odel Name HDGM 2 D	Phase epth From (TV (usft) 0.00 Vertical Depth	4/10/2017 e: P /D) +N/-S	(*) PLAN +N/-S (usft) 0.00 +E/-W	9.10 Tie +E (u 0 Dogleg Rate	e On Depth: :/-W sft) .00 Build Rate	) 62.88 Dir Dir 15 Turn Rate	( 0.00 ection (°) 50.31 TFO	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft)	Mc Plan #2 In: Inclination (°) 0.00	odel Name HDGM 2 D Azimuth (°)	Phase epth From (TV (usft) 0.00 Vertical Depth (usft)	4/10/2017 e: P /D) +N/-S (usft): 0.00 0.00	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft)	9.10 Tie +E (u 0 Dogleg Rate (?/100usft) 0.00 0.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00	) 62.88 Dir 15 15 Turn Rate (°/100usft)	( 0.00 ection (°) 50.31 TFO (°)	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02	Mc Plan #2 Inclination (°) 0.00 0.00 3.50	Azimuth (°) 0.00 0.00 44.43	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91	4/10/2017 e: P /D) +N/-S (usft). 0.00 0.00 3.82	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 3.74	9.10 Tie +E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 2.00	) 62.88 Dir 15 Turn Rate (°/100usft) 0.00 0.00 0.00	( 0.00 ection (°) 50.31 TFO (°) 0.00 0.00 44.43	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48	Mc Plan #2 Inclination (°) 0.00 0.00 3.50 3.50	Azimuth (°) 0.00 0.00 44.43 44.43	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09	4/10/2017 e: P /D) +N/-S (usft). 0.00 0.00 3.82 10.46	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.3.74 10.26	9.10 Tie +E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00	) 62.88 Dir 15 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) 50.31 TFO (°) 0.00 0.00 44.43 0.00	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50	Mc Plan #2 Inclination (°) 0.00 0.00 3.50 3.50 0.00	Azimuth (°) 0.00 0.00 44.43 44.43 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00	4/10/2017 e: P /D) +N/-S (usft) 0.00 0.00 3.82 10.46 14.28	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.3.74 10.26 14.00	9.10 Tie 4E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	) 62.88 Dir 15 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) j0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50	Mc Plan #2 Inclination (°) 0.00 0.00 3.50 3.50 0.00 0.00	Azimuth (°) 0.00 0.00 44.43 44.43 0.00 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00	4/10/2017 e: P /D) +N/-S (usft) 0.00 0.00 3.82 10.46 14.28 14.28	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.74 10.26 14.00 14.00	9.10 Tie +E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 0.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 -2.00 0.00	) 62.88 Dir 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) j0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50 5,223.61	Mc Plan #2 Inclination (°) 0.00 0.00 3.50 3.50 0.00 0.00 9.55	Azimuth (°) 0.00 0.00 44.43 44.43 44.43 0.00 0.00 151.90	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00 4,853.59	4/10/2017 e: P /D) +N/-S (usft) 0.00 0.00 3.82 10.46 14.28 14.28 14.28 -552.69	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0	9.10 Tie +E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 0.00 9.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	) 62.88 Dir 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	( 0.00 ection (°) j0.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00 151.90	nT) 49,766
Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00 500.00 675.02 827.48 1,002.50 4,217.50	Mc Plan #2 Inclination (°) 0.00 0.00 0.00 3.50 3.50 0.00 0.00 9.55 90.55	Azimuth (°) 0.00 0.00 44.43 44.43 0.00 0.00	Phase epth From (TV (usft) 0.00 Vertical Depth (usft) 0.00 500.00 674.91 827.09 1,002.00 4,217.00	4/10/2017 e: P /D) +N/-S (usft) 0.00 0.00 3.82 10.46 14.28 14.28	(*) PLAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.74 10.26 14.00 14.00	9.10 Tie +E (u 0 Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 0.00	(* e On Depth: ::/-W sft) .00 Build Rate (*/100usft) 0.00 0.00 0.00 0.00 -2.00 0.00	) 62.88 Dir 15 Turn Rate (*/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	( 0.00 ection (°) 50.31 TFO (°) 0.00 0.00 44.43 0.00 180.00 0.00 151.90 -89.97	nT) 49,766

1 a 8



Well No.: Pinon Unit 306H	Le	ase No.: NMI	NM 133481X	API	: 30	0453	356380000		
							Wireline Logging Co.:	NA	
Surf Loc: 1277 FSL 318 FWL Sec 16, 2	4N10W BHL: 1229	FNL 350 FEL,	Sec 28, 24N10W				Operations Geologist:	Steve Thibodeaux	
Initial Perf: 650 FSL 580 FWL, Sec 16, 2	24N10W Final perf: 50	32 FSL 377 FEL	, Sec 28, 24N10W		Email: steve.thibodeaux@jnpresources.com				
					Phone: Office -	970-828-4450			
County: San Juan		State: NM			Cell -	970-769-0689			
Field: Pinon Unit HZ (oil) - Mancos A	/B Horizontal objective				_				
Elevation: GL:	6734	KB:	6748				Field Prints of all logs left on le	ocation:	2
Wellsite Supervisors: TBD							Final Prints of all wireline and	mudlogs	4
VP Drilling: TBD							Wireline CD with .las curves		NA
Rig Number: TBD					_	-	Mail logs/cd's ASAP to:	Sabina Kraushaar c/o	
Preliminary	Tops		Zones	1120	01	6		Juniper Resources, LLC	
Formation Picks: Nacimiento	Surface	Subsea		H20	Oil	Gas	Remarks	900 Main Ave, Suite 201 Durango, CO 81301	
Oio Alamo	241	6507		X		-		Durango, CO 81301	
Kirtland	365	6383		~	-		1		
Fruitland	918	5830		X		X	1		
Pictured Cliffs	1354	5394		-	х	X			
Lewis Shale	1354	5167		-	Λ	X			
CliffHouse	2096	4652			x	X			
Menefee	2692	4052		X	X	X			
Point Lookout	3775	2973		^	x	X	NOTES on HZ Drilling:		
Mancos	3992	2756			X	X	Allowed ~700' to build curve fi	om surface location to initia	Inerf
Mancos A	4788	1960			X	X	Lateral Section is drilled at S3		iperi
Mancos A Mancos B	4/88	1960		_	X	X	Lateral drilled ~85' updip from		o per 100
Mancos B Horizontal Target	4815	1933	~40 below B Top		X	X	BHL (TD) to be 50' past final		e per 100
Top Frac Barrier	4055	1839	~40 below B Top	-	X	X	BRL (1D) to be 50 past tinar	beri	
Mancos C (bttm frac barrier)	4909	1839			x	X			
Tocito Unconformity	4929	1788		X	X	X			
Carlile Unconformity (top Gllp SS)	5012	1736		~	X	X			
curine oncomorning (top oup 00)	5012	1100							
Fluid in Hole:	TBD								
Bit Size:	TBD		Correlation Logs:		_		Monument 1, SENE 17, 24N10V	v	
Casing:	TBD		Correlation Logs.				Rodeo Rosie 1, NENE 22, 24N1		
cusing.	TBD		-						
	100		-						
Logging Programs:	Mudlog: 2 man Cove	rage from P	pint Lookout to T	D					
	Mudloggers to catch 30' san			-					
and the second se					teve	thibo	deaux@inpresources.com		
			haar@inpresources.c	com: s					
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		to: sabina kraus			lahu	nty@			
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	Digital Daily report and logs matt.strickler@jnpresources.c Wireline: NA	to: sabina kraus							
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TOOLS: GRWD CONTACTS: Drilling Engineer	Digital Daily report and loga matt strickler@jrpresources.c Wireline: NA Depths: Horizonal Lateral Wireline	to: sabina kraus			Pre	senti		Mudloggers: Softrock Ron Hotor/ Dan McGinn emai: softrockgeological@hot	nal.com
TOOLS: GRWD CONTACTS: Criling Engineer	Digital Daily report and loga matt strickler@jrpresources.c Wireline: NA Depths: Horizonal Lateral Wireline	to: sabina kraus			Pre	sent:		Ron Horton/ Dan McGinn	hal.com

Special wireline instructions: NA

NOTE: See Juniper requirements for mudlog and wireline copies on top of prog

NOTE: See Below for NMOCD or BLM wireline and mudlog copy requirements (tight hole status) TBD