Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-55071 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval 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. Conditions of approval, if any, are attached. 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



(Continued on page 2)

\*(Instructions on page 2)

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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

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Infill

## State of New Mexico

# Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

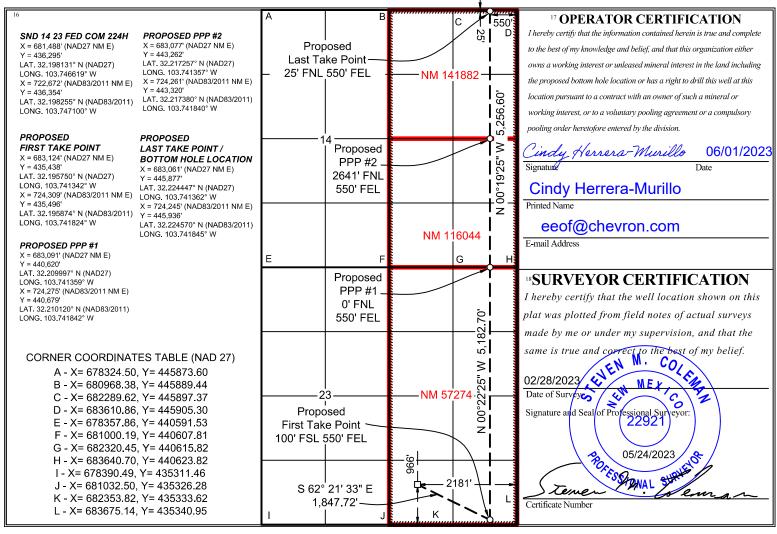
<sup>1</sup> API Number		<sup>2</sup> Pool Code						
30-015-55071		13367	COTTON DRAW;BONE SPR	ING				
<sup>4</sup> Property Code		<sup>5</sup> Pr	operty Name	6 Well Number				
335883		SND 14	4 23 FED COM	224H				
<sup>7</sup> OGRID No.		8 Or	<sup>9</sup> Elevation					
4323		CHEVRON U.S.A. INC.						

<sup>10</sup> Surface Location

	Surface Location													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
О	23	24 SOUTH	31 EAST, N.M.P.M.		966'	SOUTH	2181'	EAST	EDDY					
<sup>11</sup> 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					
A	14	24 SOUTH	31 EAST, N.M.P.M.		25'	NORTH	550'	EAST	EDDY					
12 Dedicated A	Dedicated Acres 13 Joint or Infill 14		<sup>14</sup> Consolidation Code 15	Order No.										
I														

Defining well is SND 14 23 FED COM 430H (30-015-53371)

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.



#### VI. Separation Equipment:

Separation equipment installed at each Chevron facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

#### VII./VIII. Operational & Best Management Practices:

- 1. General Requirements for Venting and Flaring of Natural Gas:
  - In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
  - Chevron installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring.
     If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

#### 2. During Drilling Operations:

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

#### 3. During Completions:

- Chevron typically does not complete traditional flowback, instead Chevron will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If Chevron completes traditional flowback, Chevron conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator.
   Venting does not occur once there is enough gas to operate a separator
- Normally, during completions a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.

#### 4. During Production:

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and
  facilities to confirm that all production equipment is operating properly and there are no leaks or releases
  except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells
  and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will
  be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate
  and pressure at the earliest practical time and takes reasonable actions to minimize venting to the
  maximum extent practicable.
- In all circumstances, Chevron will flare rather than vent unless flaring is technically infeasible and venting
  of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or
  the environment.
- Chevron's design for new facilities utilizes air-activated pneumatic controllers and pumps.
- If natural gas does not meet pipeline quality specification, the gas is sampled twice per week until the gas meets the specifications.
- Chevron does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

#### 5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize a soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. New flares will have a
  continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely
  anchored.
- New tanks will be equipped with an automatic gauging system.
- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and
  facilities to confirm that all production equipment is operating properly and there are no leaks or releases
  except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells
  and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will
  be available upon request by the division.

#### 6. Measurement or Estimation of Vented and Flared Natural Gas

- Chevron estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling, operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, Chevron will install meters on flares installed after May 25, 2021. Meters
  will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the
  meter.

## State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

## Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Chevron USA	OGRID:	4323	Date: <u>4 / 26/ 23 II.</u>							
<b>Type:</b> ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.										
If Other, please describe:										

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be

recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil BBL/D	Gas MCF/D	Produced Water
						BBL/D
SND 23 14 FED COM P622 #516H	Pending	UL:O, Sec 23, T25S-R32E	4355' FNL, 2983' FWL	1805 BBL/D	6297 MCF/D	3961 BBL/D
SND 23 14 FED COM P622 #622H	Pending	UL:O ,Sec 23, T25S-R32E	4355' FNL, 3003' FWL	1502 BBL/D	2762 MCF/D	3877 BBL/D
SND 23 14 FED COM P622 #623H	Pending	UL:O, Sec 23, T25-R32E	4355' FNL, 3023' FWL	1598 BBL/D	2939 MCF/D	4125 BBL/D
SND 23 14 FED COM P622 #624H	Pending	UL:O, Sec 23, T25S-R32E	4355' FNL, 3043' FWL	1598 BBL/D	2939 MCF/D	4125 BBL/D
SND 23 14 FED COM P622 #222H	Pending	UL:O ,Sec 23 T24S-R31E	4355' FNL, 3063' FWL	1996 BBL/D	2563 MCF/D	6256 BBL/D
SND 23 14 FED COM P622 #223H	Pending	UL:O , Sec 23 T 24S-R31E	4355' FNL,	1996 BBL/D	2563 MCF/D	6256 BBL/D

See 19.15.27.9(D)(1) NM	AC]						
IV. Central Delivery	Point	SATELLITE 2	3 TO CTB 12	2	Name:		
SND 23 14 FED COM P622 #224H	Pending	UL: O, Sec 23 T24S- R31E	4355' FNL, 3103' FWL	1482 BBL/D	1903 MCF/D	4646 BBL/D	
ived by OCD: 5/6/2024 12	.47.31 1 W		3083' FWL				Page 6

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD	Completion Commencement	Initial Flow	First Production
			Reached	Date	Back Date	Date
			Date			
SND 23 14 FED COM	Pending		N/A	N/A	N/A	N/A
P622 #516H		08/06/2025				

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SND 23 14 FED COM P622 #622H	Pending	08/06/2025	N/A	N/A	N/A	N/A
SND 23 14 FED COM P622 #623H	Pending	08/06/2025	N/A	N/A	N/A	N/A
SND 23 14 FED COM P622 #624H	Pending	08/06/2025	N/A	N/A	N/A	N/A
SND 23 14 FED COM P622 #222H	Pending	08/06/2025	N/A	N/A	N/A	N/A
SND 23 14 FED COM P622 #223H	Pending	08/06/2025	N/A	N/A	N/A	N/A
SND 23 14 FED COM P622 #224H	Pending	08/06/2025	N/A	N/A	N/A	N/A

_	ment Practices: ⊠ anned maintenance.	•	cription of Operator's best man	nagement practices to minimize ventir
			Enhanced Plan	
		<u>EFFECTIN</u>	<b>E APRIL 1, 2022</b>	
	2022, an operator to complete this section		e with its statewide natural gas	s capture requirement for the applicab
yorung area mase	complete and section			
0	- 414 :4 :4	!	-4: 1	1 :
•	s that it is not required for the applicable r	-	ction because Operator is in co	ompliance with its statewide natural ga
pture requirement	•	eporting area.	ction because Operator is in co	ompliance with its statewide natural ga
pture requirement	for the applicable r	eporting area.	Anticipated Average	Anticipated Volume of Natural
pture requirement  Anticipated Na	for the applicable r	eporting area.	•	
pture requirement  . Anticipated Na	for the applicable r	eporting area.	Anticipated Average	Anticipated Volume of Natural
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pture requirement  . Anticipated Na  W	for the applicable r tural Gas Product	eporting area.  ion:  API	Anticipated Average Natural Gas Rate MCF/D  Anticipated Gathering	Anticipated Volume of Natural Gas for the First Year MCF  Available Maximum Daily Capacity
pture requirement  Anticipated Na  W  Natural Gas Ga	for the applicable r tural Gas Product	eporting area.  ion:  API  GGS):	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
pture requirement  A. Anticipated Na  W  Natural Gas Ga	for the applicable r tural Gas Product	eporting area.  ion:  API  GGS):	Anticipated Average Natural Gas Rate MCF/D  Anticipated Gathering	Anticipated Volume of Natural Gas for the First Year MCF  Available Maximum Daily Capacity
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Natural Gas Gar Operator  I. Map.  Attach oduction operation e segment or portion of the control	tural Gas Productive ell  thering System (Note that an accurate and legals to the existing or on of the natural gas gas from the well prior to the system).	approximate and approximate a	Anticipated Average Natural Gas Rate MCF/D  Anticipated Gathering Start Date  location of the well(s), the antithe natural gas gathering syster which the well(s) will be connection.	Anticipated Volume of Natural Gas for the First Year MCF  Available Maximum Daily Capacity of System Segment Tie-in  cipated pipeline route(s) connecting the (s), and the maximum daily capacity dected.  ther 100% of the anticipated natural gas
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Received by confidential 24 120 fees to PMs serts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information proving is of 36 Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

## **Section 3 - Certifications**

## Effective May 25, 2021

Operator certifies that,	after reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	le to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport f the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the into account the curren	e able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking t and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. s box, Operator will select one of the following:
Well Shut-In. ☐ Opera	ator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of
D of 19.15.27.9 NMAC	C; or
	Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential ses for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
<b>(b)</b>	power generation for grid;
(c)	compression on lease;
(d)	liquids removal on lease;
(e)	reinjection for underground storage;
<b>(f)</b>	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;
(h)	fuel cell production; and

## **Section 4 - Notices**

If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud: 1.

other alternative beneficial uses approved by the division.

- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
  - **(b)** Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural

capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Cindy Herrera-Murillo Signature:

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(i)

ePrivate by OE	ED: 5/6/2024 12:49:31 PM Cindy Herrera-Murillo	Page 10 o
	Cindy Herrera-wurillo	
Title:	Sr HSE Regulatory affairs Coordinator	
E-mail Addre	ss: eeof@chevron.com	
Date:	04/26/2023	
Phone:		
	575-263-0431	
	OH, CONCEDIVATION DIVIGION	
	OIL CONSERVATION DIVISION	
	(Only applicable when submitted as a standalone form)	
Approved By	·	
Title:		
Approval Dat	e:	
Conditions of	Approval:	

Well Name: SND 14 23 FED COM Well Number: 224H

completed prior to drilling the production lateral sections unless the BOP connection was not broken prior to drilling that hole section (example: drilling straight from production into production liner hole section). A break test will only be performed on operations where BLM documentation states a 5M or less BOP can be utilized. "Chevron respectfully requests a variance to use a FMC Technologies UH-S Multibowl wellhead, which will be run through the rig floor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC Technologies and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal. All tests performed by third party.

**Testing Procedure:** The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, production, and production liner will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise (see variance request). Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test pressures and other documented tests may be recorded and documented via utilization of the IPT 'Suretec' Digital BOP Test Method in lieu of the standard test chart. In the event the IPT system is unavailable, the standard test chart will be used.

#### **Choke Diagram Attachment:**

D2.1a\_BLM\_5M\_Choke\_Manifold\_Diagram\_20210823122058.pdf

D2.2a\_BLM\_Choke\_Hose\_Test\_Specs\_and\_Pressure\_Test\_Continental\_20210823122144.pdf

#### **BOP Diagram Attachment:**

D2.1b\_NM\_Slim\_Hole\_Wellhead\_6650\_psi\_UH\_S\_20210823122152.pdf

D2.3a\_BLM\_5M\_Annular\_10M\_Rams\_Stackup\_and\_Test\_Plan\_20210823122216.pdf

## **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	16	13.375	NEW	API	N	0	450	0	450	3549	3099	450	J-55	54.5	BUTT	5.43	2.04	DRY	37.0 6	DRY	34.7 8
2		12.2 5	9.625	NEW	API	N	0	4614	0	4446	3465	-897	4614	L-80	40	BUTT	1.52	2.47	DRY	5.31	DRY	5.13
- 1	PRODUCTI ON	8.75	7.0	NEW	API	N	0	8725	0	8482	3465	-4933	8725	OTH ER		OTHER - BLUE	2.04	4.36	DRY	3.78	DRY	3.78
4	LINER	6.12 5	5.0	NEW	API	N	8525	9175	8282	8882	-4733	-5333	650	P- 110	1	OTHER - W513	1.69	4.15	DRY	2.31	DRY	3.63
5	LINER	4.5	4.5	NEW	API	N	9175	19545	8882	9055	-5333	-5506	10370	P- 110		OTHER - W521	1.69	4.15	DRY	2.31	DRY	3.63

#### **Casing Attachments**

Well Name: SND 14 23 FED COM Well Number: 224H

Casing .	Attachments	S
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Casing ID: 1

String

**SURFACE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $13.375\_54.5ppf\_J55\_STC\_20220823114831.pdf$ 

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

9.625in\_BTC\_40ppf\_L80\_20230601073504.pdf

Casing ID: 3

**String** 

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

7in\_Blue\_SD\_29ppf\_P110\_20230601073546.pdf

Well Name: SND 14 23 FED COM Well Number: 224H

## **Casing Attachments**

Casing ID: 4

String

**LINER** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

 $5 in\_Wedge\_513\_18 ppf\_P110\_20230601073630.pdf$ 

Casing ID: 5

String

LINER

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

4.5in\_Wedge\_521\_11.6ppf\_P110\_20230601073708.pdf

## **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	N/A	N/A
SURFACE	Tail		0	450	292	1.34	14.8	391	25	CLASS C	Extender, Antifoam, Retarder
LINER	Lead		0	0	0	0	0	0	0	N/A	N/A

INTERMEDIATE	Lead	0	3614	630	2.29	11.5	1443	25	CLASS C	Extender, Antifoam,
										Retarder, Viscosifier

Well Name: SND 14 23 FED COM Well Number: 224H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3614	4614	263	1.63	13.6	429	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Lead		0	7725	498	2.64	11.5	1316	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
PRODUCTION	Tail		7725	8725	134	1.4	14.5	188	25	CLASS C	Extender, Antifoam, Retarder, Viscosifier
LINER	Lead		8525	1954 5	768	1.69	13.2	1297	25	CLASS H	Extender, Antifoam, Retarder, Viscosifier

## **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: A closed system will be used consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical portatoilet and then hauled to an approved sanitary landfill. If a reserve pit is approved, then the operation will utilize a open loop system via the permitted reserve pit and a closed system will be used consisting of above ground steel tanks All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations. And transporting of E&P waste will follow EPA regulations and accompanying manifests.

**Describe the mud monitoring system utilized:** A mud test shall be performed every 24 hours after muddling up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated a PVT, stroke counter, flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume in compliance with Onshore Order #2. A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

## **Circulating Medium Table**

Top Depth	Bottom Depth Mud Type	Min Weight (lbs/gal) Max Weight (lbs/gal)  Density (lbs/cu ft)	PH Viscosity (CP) Salinity (ppm)	Filtration (cc) Additional Characteristics
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Well Name: SND 14 23 FED COM Well Number: 224H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
8725	1954 5	OIL-BASED MUD	9	9.7							Viscosity 50-70 Filtrate 5-10 -Due to wellbore instability in the lateral, may exceed the MW weight window needed to maintain overburden stresses
4614	8725	OTHER : WBM/SALT- STURATED	8.5	9.5							Viscosity: 26-36 Filtrate: 15-25
0	450	SPUD MUD	8.3	8.9							Viscosity: 26-36 Filtrate: 15-25
450	4614	SALT SATURATED	8.9	10							Viscosity: 26-36 Filtrate: 15-25 Saturated brine would be used through salt sections.

## **Section 6 - Test, Logging, Coring**

List of production tests including testing procedures, equipment and safety measures:

Production tests are not planned.

Logs run include: Gamma Ray Log, Directional Survey

Coring Operations are not planned.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, MUD LOG/GEOLOGIC LITHOLOGY LOG, DIRECTIONAL SURVEY,

Coring operation description for the well:

Conventional whole core samples are not planned; direction survey will be run - will send log(s) when run.

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 4567 Anticipated Surface Pressure: 2574

Anticipated Bottom Hole Temperature(F): 156

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

N/A - Pressure ramp begins in the bottom of the Third Bone Spring formation

#### Contingency Plans geoharzards description:

- "- Casing design accounts for pressure ramp.
- Mud weighting agents available on location to increase drilling fluid density.
- BOP, choke, and well control drills.

Well Name: SND 14 23 FED COM Well Number: 224H

- BOP functioned and pressure tested"

Hydrogen sulfide gas is not anticipated: However the H2S Contingency plan is attached with this APD in the event that H2S

is encountered

**Contingency Plans geohazards** 

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Chevron\_Standard\_H2S\_Contingency\_Plan\_20220823121507.pdf

## **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

Copy\_of\_SND\_23\_14\_FED\_COM\_224H\_\_\_9\_Pt\_Plan\_20230601074711.pdf

DefPlan100ft\_SND2314FedCom224H\_R1\_20230601074741.pdf

#### Other proposed operations facets description:

- Authorization to use the spudder rig to spud the well and set surface casing. The drilling rig will move in less than 90 days to continue drilling operations. Rig layouts attached.
- \*\*\*Drilling plan attached contains a contingency cement program.

## Other proposed operations facets attachment:

Operational\_Best\_Management\_Practices\_20230531095957.pdf

SND\_P622\_Gas\_Management\_Plan\_\_\_NMOCD\_\_1\_.pdf\_20230531095907.pdf

Visio\_Patterson\_Mock\_Pad\_v.2\_20230531100306.pdf

#### Other Variance attachment:







Report Date:
Client:
Field:
Structure / Slot:
Well:
Borehole:
UBHH / APIR:
Survey Name:
Survey Date:
Ton / AHD / DDI / ERD Ratio:
Coordinate Reference System:
Location Lat / Long:
Location Grid ME / YX:
CRS Grid Convergence Angle:
Grid Scale Factor:
Version / Patch:

May 17, 2023 - 02:39 PM (UTC 0)
Chevron
NM, Eddy County (NAD 27 EZ)
Chevron SND Pad 622 / SND 23 14 Fed Com 224H
SND 23 14 Fed Com 224H
Unktoown / Unknown
SND 23 14 Fed Com 224H
Unknown / Unknown
SND 23 14 Fed Com 224H
178 SND 23 14 Fed SND 24 Fed SND 24

Survey / DLS Computation:
Vertical Section Azimuth:
Vertical Section Azimuth:
Vertical Section Origin:
TVD Reference Datum:
TVD Reference Datum:
TVD Reference Elevation:
Magnetic Declination:
Magnetic Declination
Total Gravity Field Strength:
Gravity Model:
Total Magnetic Field Strength:
Magnetic Dip Angle:
Declination Date:
Magnetic Dip Angle:
Magnetic Declination Model:
Morth Reference
Grid Convergence Used:
Total Cornway North--Orid North:
Local Coord Referenced To:

Minimum Cuneture / Lubinski 399.850 '(GRID North) 0.000 h. 0.000 f. 1.000 f. RKB 3574.000 ft above MSL 3574.000 ft above MSL 6.365' 988.426mg (1.80665 Based) GARM 4747385 ftT 587.755' 2033 HDCM 2033 Grid North 0.3128' 6.052' Well Head

Comments	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	()
Surface	0.00	0.00	120.39	0.00	-3,574.00	0.00	0.00	0.00		436,295.00	681,488.00	32°11'53.271123"N 103°44'47.822877"W
	100.00 200.00	0.00	120.39 120.39	100.00 200.00	-3,474.00 -3,374.00	0.00	0.00	0.00	0.00	436,295.00 436,295.00	681,488.00 681,488.00	32°11'53.271123"N 103°44'47.822877"W 32°11'53.271123"N 103°44'47.822877"W
	300.00	0.00	120.39	300.00	-3,274.00	0.00	0.00	0.00	0.00	436,295.00	681,488.00	32°11'53.271123'N 103°44'47.822877'W
Build 1.5°/100ft	400.00	0.00	120.39	400.00	-3,174.00	0.00	0.00	0.00	0.00	436,295.00	681,488.00	32°11'53.271123"N 103°44'47.822877"W
	500.00	1.50	120.39	499.99	-3,074.01	-0.67	-0.66	1.13	1.50	436,294.34	681,489.13	32°11'53.264509"N 103°44'47.809781"W
Rustler (RSLR)	600.00 668.22	3.00 4.02	120.39 120.39	599.91 668.00	-2,974.09 -2,906.00	-2.68 -4.81	-2.65 -4.76	4.52 8.12	1.50 1.50	436,292.35 436,290.24	681,492.52 681,496.12	32°11'53.244671"N 103°44'47.770500"W 32°11'53.223557"N 103°44'47.728691"W
readilor (reality	700.00	4.50	120.39	699.69	-2,874.31	-6.02	-5.96	10.16	1.50	436,289.04	681,498.16	32°11'53.211625"N 103°44'47.705062"W
	800.00	6.00	120.39	799.27	-2,774.73	-10.70	-10.59	18.05	1.50	436,284.41	681,506.05	32°11'53.165391"N 103°44'47.613512"W
Rustler Los Medaños Member Rustler Los Medaños M-1 Unit	875.23 898.41	7.13 7.48	120.39 120.39	874.00 897.00	-2,700.00 -2,677.00	-15.09 -16.60	-14.94 -16.43	25.47 28.01	1.50 1.50	436,280.06 436,278.57	681,513.47 681,516.01	32°11'53.121939"N 103°44'47.527471"W 32°11'53.107046"N 103°44'47.497981"W
Rustier Los Medarios M-1 Offit	900.00	7.50	120.39	898.57	-2,675.43	-16.70	-16.53	28.19	1.50	436,278.47	681,516.19	32°11'53.106001"N 103°44'47.495912"W
	1,000.00	9.00	120.39	997.54	-2,576.46	-24.04	-23.79	40.56	1.50	436,271.21	681,528.56	32°11'53.033497"N 103°44'47.352344"W
Salado (SLDO)	1,006.55	9.10	120.39	1,004.00	-2,570.00	-24.57	-24.31	41.45	1.50	436,270.69	681,529.45	32°11'53.028295"N 103°44'47.342042"W
	1,100.00 1,200.00	10.50 12.00	120.39 120.39	1,096.09 1,194.16	-2,477.91 -2,379.84	-32.70 -42.67	-32.36 -42.23	55.17 72.00	1.50 1.50	436,262.64 436,252.77	681,543.17 681,560.00	32°11'52.947928"N 103°44'47.182904"W 32°11'52.849352"N 103°44'46.987711"W
	1,300.00	13.50	120.39	1,291.70	-2,282.30	-53.95	-53.40	91.04	1.50	436,241.61	681,579.03	32°11'52.737838"N 103°44'46.766897"W
	1,400.00	15.00	120.39	1,388.62	-2,185.38	-66.53	-65.85	112.27	1.50	436,229.15	681,600.26	32°11'52.613461"N 103°44'46.520614"W
11-14	1,500.00	16.50	120.39	1,484.86	-2,089.14	-80.41	-79.58	135.68	1.50	436,215.42	681,623.67	32°11'52.476306"N 103°44'46.249030"W
Hold	1,533.24 1,600.00	17.00 17.00	120.39 120.39	1,516.69 1.580.53	-2,057.31 -1,993.47	-85.31 -95.28	-84.43 -94.30	143.94 160.78	1.50 0.00	436,210.58 436,200.70	681,631.94 681,648.77	32°11'52.427902"N 103°44'46.153184"W 32°11'52.329283"N 103°44'45.957905"W
	1,700.00	17.00	120.39	1,676.16	-1,897.84	-110.23	-109.09	186.00	0.00	436,185.91	681,673.99	32°11'52.181559"N 103°44'45.665395"W
	1,800.00	17.00	120.39	1,771.79	-1,802.21	-125.17	-123.88	211.21	0.00	436,171.12	681,699.20	32°11'52.033836"N 103°44'45.372885"W
	1,900.00	17.00	120.39	1,867.43	-1,706.57	-140.12	-138.67	236.43	0.00	436,156.33	681,724.42	32°11'51.886112"N 103°44'45.080375"W
	2,000.00 2,100.00	17.00 17.00	120.39 120.39	1,963.06 2,058.69	-1,610.94 -1,515.31	-155.06 -170.01	-153.47 -168.26	261.65 286.86	0.00 0.00	436,141.54 436,126.75	681,749.63 681,774.85	32°11'51.738388"N 103°44'44.787866"W 32°11'51.590664"N 103°44'44.495357"W
	2,200.00	17.00	120.39	2,154.32	-1,419.68	-184.95	-183.05	312.08	0.00	436,111.96	681,800.06	32°11'51.442940"N 103°44'44.202848"W
	2,300.00	17.00	120.39	2,249.95	-1,324.05	-199.89	-197.84	337.30	0.00	436,097.17	681,825.28	32°11'51.295215"N 103°44'43.910339"W
	2,400.00 2,500.00	17.00 17.00	120.39 120.39	2,345.58 2.441.21	-1,228.42 -1.132.79	-214.84 -229.78	-212.63 -227.42	362.52 387.73	0.00 0.00	436,082.38 436,067.59	681,850.50 681,875,71	32°11'51.147491"N 103°44'43.617831"W 32°11'50.999766"N 103°44'43.325323"W
	2,600.00	17.00	120.39	2,536.84	-1,132.79	-244.73	-242.21	412.95	0.00	436,052.80	681,900.93	32°11'50.852041"N 103°44'43.032815"W
	2,700.00	17.00	120.39	2,632.47	-941.53	-259.67	-257.00	438.17	0.00	436,038.01	681,926.14	32°11'50.704315"N 103°44'42.740307"W
	2,800.00	17.00	120.39	2,728.11	-845.89	-274.62	-271.79	463.38	0.00	436,023.22	681,951.36	32°11'50.556590"N 103°44'42.447800"W
Castile (CSTL)	2,900.00 2,975.56	17.00 17.00	120.39 120.39	2,823.74 2,896.00	-750.26 -678.00	-289.56 -300.86	-286.58 -297.76	488.60 507.66	0.00 0.00	436,008.43 435,997.26	681,976.57 681,995.63	32°11'50.408864"N 103°44'42.155293"W 32°11'50.297237"N 103°44'41.934263"W
Castile (CSTL)	3,000.00	17.00	120.39	2,096.00	-654.63	-304.51	-301.37	513.82	0.00	435,997.26	682,001.79	32°11'50.261139"N 103°44'41.862786"W
	3,100.00	17.00	120.39	3,015.00	-559.00	-319.45	-316.16	539.04	0.00	435,978.85	682,027.01	32°11'50.113413"N 103°44'41.570280"W
	3,200.00	17.00	120.39	3,110.63	-463.37	-334.40	-330.96	564.25	0.00	435,964.06	682,052.22	32°11'49.965686"N 103°44'41.277774"W
	3,300.00	17.00	120.39	3,206.26	-367.74	-349.34	-345.75	589.47	0.00	435,949.27	682,077.44	32°11'49.817960"N 103°44'40.985268"W
	3,400.00 3,500.00	17.00 17.00	120.39 120.39	3,301.89 3,397.52	-272.11 -176.48	-364.29 -379.23	-360.54 -375.33	614.69 639.91	0.00 0.00	435,934.48 435,919.69	682,102.65 682,127.87	32°11'49.670234"N 103°44'40.692762"W 32°11'49.522507"N 103°44'40.400256"W
	3,600.00	17.00	120.39	3,493.16	-80.84	-394.17	-390.12	665.12	0.00	435,904.90	682,153.09	32°11'49.374780"N 103°44'40.107751"W
	3,700.00	17.00	120.39	3,588.79	14.79	-409.12	-404.91	690.34	0.00	435,890.11	682,178.30	32°11'49.227053"N 103°44'39.815246"W
	3,800.00	17.00	120.39	3,684.42	110.42	-424.06	-419.70	715.56	0.00	435,875.32	682,203.52	32°11'49.079326"N 103°44'39.522742"W
	3,900.00 4.000.00	17.00 17.00	120.39 120.39	3,780.05 3.875.68	206.05 301.68	-439.01 -453.95	-434.49 -449.28	740.77 765.99	0.00	435,860.53 435,845,74	682,228.73 682,253.95	32°11'48.931598"N 103°44'39.230237"W 32°11'48.783870"N 103°44'38.937733"W
	4,100.00	17.00	120.39	3,971.31	397.31	-468.90	-464.07	791.21	0.00	435,830.95	682,279.16	32°11'48.636143"N 103°44'38.645229"W
	4,200.00	17.00	120.39	4,066.94	492.94	-483.84	-478.86	816.43	0.00	435,816.16	682,304.38	32°11'48.488415"N 103°44'38.352726"W
	4,300.00	17.00	120.39	4,162.57	588.57	-498.79	-493.65	841.64	0.00	435,801.37	682,329.60	32°11'48.340686"N 103°44'38.060222"W
	4,400.00 4,500.00	17.00 17.00	120.39 120.39	4,258.21 4,353.84	684.21 779.84	-513.73 -528.68	-508.45 -523.24	866.86 892.08	0.00 0.00	435,786.58 435,771.79	682,354.81 682,380.03	32°11'48.192958"N 103°44'37.767719"W 32°11'48.045229"N 103°44'37.475216"W
	4,600.00	17.00	120.39	4,449.47	875.47	-543.62	-538.03	917.29	0.00	435,757.00	682,405.24	32°11'47.897501"N 103°44'37.182714"W
Lamar (LMAR)	4,634.02	17.00	120.39	4,482.00	908.00	-548.70	-543.06	925.87	0.00	435,751.97	682,413.82	32°11'47.847245"N 103°44'37.083208"W
Bell Canyon (BEL)	4,672.71	17.00	120.39	4,519.00	945.00	-554.49	-548.78	935.63	0.00	435,746.25	682,423.58	32°11'47.790088"N 103°44'36.970038"W
	4,700.00	17.00 17.00	120.39	4,545.10	971.10	-558.56 -573.51	-552.82	942.51	0.00	435,742.21	682,430.46 682,455.68	32°11'47.749772"N 103°44'36.890212"W
	4,800.00 4,900.00	17.00	120.39 120.39	4,640.73 4,736.36	1,066.73 1,162.36	-573.51 -588.45	-567.61 -582.40	967.73 992.95	0.00	435,727.42 435,712.63	682,480.89	32°11'47.602042"N 103°44'36.597710"W 32°11'47.454313"N 103°44'36.305208"W
	5,000.00	17.00	120.39	4,831.99	1,257.99	-603.40	-597.19	1,018.16	0.00	435,697.84	682,506.11	32°11'47.306584"N 103°44'36.012706"W
	5,100.00	17.00	120.39	4,927.62	1,353.62	-618.34	-611.98	1,043.38	0.00	435,683.05	682,531.32	32°11'47.158854"N 103°44'35.720205"W
	5,200.00	17.00	120.39	5,023.25	1,449.25	-633.29	-626.77	1,068.60	0.00	435,668.26	682,556.54	32°11'47.011124"N 103°44'35.427704"W
	5,300.00 5,400.00	17.00 17.00	120.39 120.39	5,118.89 5,214.52	1,544.89 1,640.52	-648.23 -663.18	-641.56 -656.35	1,093.81 1,119.03	0.00 0.00	435,653.47 435,638.68	682,581.75 682,606.97	32°11'46.863394"N 103°44'35.135203"W 32°11'46.715664"N 103°44'34.842703"W
	5,500.00	17.00	120.39	5,310.15	1,736.15	-678.12	-671.14	1,144.25	0.00	435,623.89	682,632.19	32°11'46.567933"N 103°44'34.550203"W
	5,600.00	17.00	120.39	5,405.78	1,831.78	-693.07	-685.94	1,169.47	0.00	435,609.10	682,657.40	32°11'46.420203"N 103°44'34.257703"W
Cherry Canyon (CHR)	5,620.10 5,700.00	17.00 17.00	120.39 120.39	5,425.00 5,501.41	1,851.00 1,927.41	-696.07 -708.01	-688.91 -700.73	1,174.53 1,194.68	0.00	435,606.13 435,594.31	682,662.47 682,682.62	32°11'46.390510"N 103°44'34.198914"W 32°11'46.272472"N 103°44'33.965203"W
	5,800.00	17.00	120.39	5,597.04	2,023.04	-722.96	-715.52	1,219.90	0.00	435,579.52	682,707.83	32°11'46.124741"N 103°44'33.672704"W
	5,900.00	17.00	120.39	5,692.67	2,118.67	-737.90	-730.31	1,245.12	0.00	435,564.73	682,733.05	32°11'45.977010"N 103°44'33.380205"W
Drop .75°/100ft	5,953.32	17.00	120.39	5,743.66	2,169.66	-745.87	-738.19	1,258.56	0.00	435,556.85	682,746.49	32°11'45.898241"N 103°44'33.224247"W
	6,000.00 6.100.00	16.65 15.90	120.39 120.39	5,788.35 5.884.34	2,214.35 2,310.34	-752.77 -767.10	-745.03 -759.21	1,270.22 1,294.39	0.75 0.75	435,550.01 435,535.84	682,758.15 682,782.32	32°11'45.829968"N 103°44'33.089072"W 32°11'45.688365"N 103°44'32.808707"W
	6,200.00	15.15	120.39	5,980.69	2,406.69	-780.78	-772.75	1,317.47	0.75	435,522.30	682,805.40	32°11'45.553123"N 103°44'32.540938"W
	6,300.00	14.40	120.39	6,077.38	2,503.38	-793.82	-785.65	1,339.47	0.75	435,509.40	682,827.40	32°11'45.424266"N 103°44'32.285811"W
	6,400.00	13.65	120.39	6,174.40	2,600.40	-806.20	-797.91	1,360.37	0.75	435,497.14	682,848.30	32°11'45.301816"N 103°44'32.043369"W
	6,500.00 6,600.00	12.90 12.15	120.39 120.39	6,271.73 6,369.35	2,697.73 2,795.35	-817.94 -829.02	-809.52 -820.49	1,380.18 1,398.88	0.75 0.75	435,485.52 435,474.55	682,868.10 682,886.80	32°11'45.185793"N 103°44'31.813654"W 32°11'45.076218"N 103°44'31.596705"W
	6,700.00	11.40	120.39	6,467.25	2,893.25	-839.45	-830.82	1,416.48	0.75	435,464.23	682,904.40	32°11'44.973110"N 103°44'31.392559"W
	6,800.00	10.65	120.39	6,565.40	2,991.40	-849.23	-840.49	1,432.97	0.75	435,454.55	682,920.89	32°11'44.876486"N 103°44'31.201252"W
Brushy Canyon (BCN)	6,900.00 6.932.68	9.90 9.65	120.39 120.39	6,663.80 6.696.00	3,089.80 3.122.00	-858.35 -861.18	-849.51 -852.32	1,448.36 1,453.14	0.75 0.75	435,445.53 435,442.73	682,936.28 682,941.06	32°11'44.786362"N 103°44'31.022815"W 32°11'44.758322"N 103°44'30.967299"W
Siddiny Carryon (DCIN)	7,000.00	9.65	120.39	6,762.42	3,122.00	-861.18 -866.80	-852.32 -857.89	1,453.14	0.75	435,442.73	682,950.55	32°11'44.758322'N 103°44'30.967299'W 32°11'44.702754"N 103°44'30.857280"W
	7,100.00	8.40	120.39	6,861.25	3,287.25	-874.60	-865.60	1,475.78	0.75	435,429.45	682,963.70	32°11'44.625677"N 103°44'30.704675"W
	7,200.00	7.65	120.39	6,960.27	3,386.27	-881.74	-872.66	1,487.82	0.75	435,422.38	682,975.74	32°11'44.555144"N 103°44'30.565026"W
	7,300.00 7,400.00	6.90 6.15	120.39 120.39	7,059.46 7,158.81	3,485.46 3,584.81	-888.21 -894.02	-879.07 -884.82	1,498.74 1,508.54	0.75 0.75	435,415.98 435,410.23	682,986.66 682,996.46	32°11'44.491166"N 103°44'30.438357"W 32°11'44.433756"N 103°44'30.324690"W
	7,500.00	5.40	120.39	7,258.30	3,684.30	-899.16	-889.91	1,517.22	0.75	435,405.14	683,005.14	32°11'44.382922"N 103°44'30.224044"W
	7,600.00	4.65	120.39	7,357.92	3,783.92	-903.63	-894.34	1,524.77	0.75	435,400.71	683,012.69	32°11'44.338673"N 103°44'30.136436"W
	7,700.00	3.90	120.39	7,457.64	3,883.64	-907.44	-898.11	1,531.20	0.75	435,396.94	683,019.12 683,024.42	32°11'44.301017"N 103°44'30.061881"W
	7,800.00 7,900.00	3.15 2.40	120.39 120.39	7,557.45 7,657.33	3,983.45 4,083.33	-910.58 -913.06	-901.22 -903.66	1,536.50 1,540.68	0.75 0.75	435,393.83 435,391.39	683,024.42 683,028.59	32°11'44.269960"N 103°44'30.000393"W 32°11'44.245508"N 103°44'29.951981"W
	8,000.00	1.65	120.39	7,757.27	4,183.27	-914.86	-905.45	1,543.72	0.75	435,389.60	683,031.64	32°11'44.227666"N 103°44'29.916654"W
	8,100.00	0.90	120.39	7,857.25	4,283.25	-916.00	-906.57	1,545.64	0.75	435,388.48	683,033.55	32°11'44.216435"N 103°44'29.894418"W
	8,200.00	0.15	120.39	7,957.24	4,383.24	-916.47	-907.04	1,546.43	0.75	435,388.01	683,034.34	32°11'44.211818"N 103°44'29.885277"W
Hold Vertical	8,219.80 8,300.00	0.00	120.39 120.39	7,977.04 8,057.24	4,403.04 4,483.24	-916.48 -916.48	-907.05 -907.05	1,546.45 1,546.45	0.75 0.00	435,388.00 435,388.00	683,034.36 683,034.36	32°11'44.211688"N 103°44'29.885020"W 32°11'44.211688"N 103°44'29.885020"W
	8.400.00	0.00	120.39	8.157.24	4,583.24	-916.48	-907.05	1,546.45	0.00	435,388.00	683.034.36	32°11'44.211688"N 103°44'29.885020"W
	8,500.00	0.00	120.39	8,257.24	4,683.24	-916.48	-907.05	1,546.45	0.00	435,388.00	683,034.36	32°11'44.211688"N 103°44'29.885020"W
Bone Spring (BSL)	8,589.76	0.00	120.39	8,347.00	4,773.00	-916.48	-907.05	1,546.45	0.00	435,388.00 435,388.00	683,034.36	32°11'44.211688"N 103°44'29.885020"W
BSL_carb rich top	8,600.00 8,643.76	0.00	120.39 120.39	8,357.24 8,401.00	4,783.24 4,827.00	-916.48 -916.48	-907.05 -907.05	1,546.45 1,546.45	0.00 0.00	435,388.00 435,388.00	683,034.36 683,034.36	32°11'44.211688"N 103°44'29.885020"W 32°11'44.211688"N 103°44'29.885020"W
SOC_COND HOLL (UP	8,700.00	0.00	120.39	8,401.00	4,883.24	-916.48 -916.48	-907.05 -907.05	1,546.45	0.00	435,388.00	683,034.36	32°11'44.211688'N 103°44'29.885020'W
Upper Avalon (AVU)	8,711.76	0.00	120.39	8,469.00	4,895.00	-916.48	-907.05	1,546.45	0.00	435,388.00	683,034.36	32°11'44.211688"N 103°44'29.885020"W
Build 10°/100ft	8,724.80	0.00	120.39	8,482.04	4,908.04	-916.48	-907.05	1,546.45	0.00	435,388.00	683,034.36	32°11'44.211688"N 103°44'29.885020"W
	8,800.00 8,900.00	7.52 17.52	5.46 5.46	8,557.02 8,654.52	4,983.02 5.080.52	-911.58 -890.04	-902.14 -880.59	1,546.92 1,548.98	10.00 10.00	435,392.91 435,414.46	683,034.83 683,036.89	32°11'44.260205"N 103°44'29.879252"W 32°11'44.473361"N 103°44'29.853911"W
FTP Cross	8,968.00	24.32	5.46	8,654.52	5,080.52	-890.04 -865.90	-880.59 -856.44	1,548.98	10.00	435,414.46	683,036.89	32°11'44.712269"N 103°44'29.825509"W
	9,000.00	27.52	5.46	8,746.78	5,172.78	-851.98	-842.51	1,552.62	10.00	435,452.53	683,040.53	32°11'44.849965"N 103°44'29.809139"W
	9,100.00	37.52	5.46	8,830.99	5,256.99	-798.57	-789.07	1,557.72	10.00	435,505.98	683,045.64	32°11'45.378572"N 103°44'29.746295"W
Lower Avalon (AVL)	9,200.00 9,235.89	47.52 51.11	5.46 5.46	8,904.60 8,928.00	5,330.60 5,354.00	-731.41 -704.34	-721.87 -694.78	1,564.14 1,566.73	10.00 10.00	435,573.17 435,600.26	683,052.06 683,054.64	32°11'46.043121"N 103°44'29.667289"W 32°11'46.311057"N 103°44'29.635435"W
LOWER AVAILUTE (AVL.)	9,235.89	57.52	5.46	8,965.38	5,391.38	-704.34 -652.56	-694.78 -642.98	1,566.73	10.00	435,652.06	683,059.59	32°11'46.823421"N 103°44'29.53435 W
	9,400.00	67.52	5.46	9,011.46	5,437.46	-564.41	-554.77	1,580.11	10.00	435,740.26	683,068.02	32°11'47.695762"N 103°44'29.470812"W
	9,500.00	77.52	5.46	9,041.46	5,467.46	-469.64	-459.94	1,589.17	10.00	435,835.08	683,077.08	32°11'48.633638"N 103°44'29.359310"W
Landing Point	9,600.00	87.52 90.00	5.46 5.46	9,054.46 9.055.00	5,480.46	-371.13 -346.47	-361.37 -336.69	1,598.58	10.00 10.00	435,933.65	683,086.50	32°11'49.608553"N 103°44'29.243403"W
conding rount	9,624.80	au.uu	3.40	0,000.00	5,481.00	-540.47	-530.09	1,600.94	10.00	435,958.33	683,088.85	32°11'49.852600"N 103°44'29.214389"W

The Personal Section 1	Comments	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude (° ' ")
March   Marc	Turn 2°/100ft	9,700.00			9,055.00	5,481.00	-271.65 -175.51	-261.83 -165.63	1,608.09		436,033.18	683,096.01 683,105.20	32°11'50.593008"N 32°11'51 544404"N	103°44'29.126362"W
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tull 2 / Toolt	9,800.00	90.00	5.39	9,055.00	5,481.00	-172.16	-162.28	1,617.60	2.00	436,132.73	683,105.51	32°11'51.577542"N	103°44'29.009334"W
NO 00000 000 000 000 000 000 000 000 000														
100000 100 100 100 100 100 100 100 100	Hold	10,088.01	90.00	359.63		5,481.00	115.37	125.33	1,630.21	2.00	436,420.32	683,118.12	32°11'54.422851"N	103°44'28.844190"W
1,00,000   20,000		10.200.00	90.00	359.63	9,055.00	5,481.00	227.36	237.32	1,629.49	0.00	436,532,30	683,117.40	32°11'55.531077"N	103°44'28.845431"W
150.00											436,632.30			
1,000.00   10,000   20,000		10,500.00	90.00	359.63	9,055.00	5,481.00	527.36	537.31	1,627.55	0.00	436,832.28	683,115.46	32°11'58.499725"N	103°44'28.848754"W
1800														
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10,800.00			9,055.00	5,481.00	827.36	837.30	1,625.61		437,132.26		32°12'1.468372"N	103°44'28.852077"W
11-20-00 00-00 36-00 95-		11,000.00	90.00	359.63	9,055.00	5,481.00	1,027.36	1,037.30	1,624.32	0.00	437,332.24	683,112.23	32°12'3.447470"N	103°44'28.854293"W
11,500,00 000 360,00 000 360,00 000 360,00 000 12,523 01,5		11,100.00				5,481.00	1,127.36	1,137.30			437,432.24	683,111.59	32°12'4.437019"N	103°44'28.855400"W
11,000 0 00 0 000 0 000 0 000 0 000 0 000 0		11,300.00	90.00	359.63	9,055.00	5,481.00	1,327.36	1,337.29	1,622.38	0.00	437,632.22	683,110.29	32°12'6.416117"N	103°44'28.857615"W
1100.000														
1100000 00.00 300.01 300.00 300.01 300.00 300.01 300.00 30		11,600.00	90.00	359.63	9,055.00	5,481.00	1,627.36	1,637.29	1,620.45	0.00	437,932.20	683,108.36	32°12'9.384763"N	103°44'28.860937"W
11,000,000 00,000 300,		11,700.00						1,737.29	1,619.80			683,107.71	32°12'10.374311"N 32°12'11 363860"N	103°44'28.862044"W
13.00.00 90.00 398.81 90.50 90.00 14.00 12.173 0 2177.36 1.917.29 90.00 48.0.20 12.00 50.10 1.0 2077.14 4.00 80.00 17.00		11,900.00	90.00	359.63	9,055.00	5,481.00	1,927.36	1,937.28	1,618.51	0.00	438,232.17	683,106.42	32°12'12.353409"N	103°44'28.864259"W
12,00,00 0,00 0,00 0,00 0,00 0,00 0,00 0					9,055.00	5,481.00 5.481.00	2,027.36		1,617.86		438,332.17 438.432.16			
1246000 90.0 3568 3 9560 5 441 00 2473 5 2473 1150 00 448 720 4 681 001 8 27127 11711 1171 1171 1171 1171 1171		12,200.00	90.00			5,481.00	2,227.36	2,237.28	1,616.57	0.00	438,532.15	683,104.48	32°12'15.322054"N	103°44'28.867580"W
1,500,000 00.00 356,83 00.00 00.00 356,84 00.00 00.00 356,85 00.00 00.														
12,700.00 0.00 250.01 0.000.00 250.01 0.000.00 1		12,500.00		359.63	9,055.00	5,481.00	2,527.36	2,537.27	1,614.63	0.00	438,832.13		32°12'18.290699"N	103°44'28.870901"W
1260000 90.00 358.61 00500 5.481.00 1.272.70 3.372.72 1.191.07 0.00 4.582.221 0050000 5.272.21 1.191.07 1.191.0		12,700.00	90.00	359.63	9,055.00	5,481.00	2,727.36	2,737.26	1,613.34	0.00	439,032.11	683,101.25	32°12'20.269795"N	103°44'28.873115"W
1,000,000 000 556,63 9,056,00 5,041,00 3,027,30 1,111,41 0,00 4,503,020 630,000 22712,234447H 107447,876467H 10									1,612.70		439,132.11		32°12'21.259344"N	103°44'28.874222"W
1,3,000,00 00,00 38683 0,0550 0 5,641 00 3277 6 337					9,055.00	5,481.00			1,611.41		439,232.10		32°12'23.238440"N	103°44'28.876435"W
1,300.00 90.00 356.81 9.056.00 9.461.00 3.377.36 3.387.26 1.606.41 0.00 4.00.02.07 1.00.00 1.0														
1,500.00 90.00 50.		13,300.00	90.00	359.63	9,055.00	5,481.00	3,327.36	3,337.25	1,609.47	0.00	439,632.07	683,097.38	32°12'26.207084"N	103°44'28.879755"W
1,500.00 90.00 95.05 3 9.05 0 9.50 0 5.481 00 327 36 3,97 25 1,000 90.00 449,932.05 88,964 40 11,000 90.00 9														
1,800.00 90.00 958.68 9,865.00 5,441.00 3,827.36 3,837.24 1,000.24 40,122.00 68,000.35 3,000.00 1,000.00 90.00 959.67 9,005.00 1,441.00 90.00 959.67 9,005.00 1,441.00 1,472.36 4,177.24 1,000.24 0,000 44,022.00 68,000.37 3,000.00 1,441.00 1,472.36		13,600.00	90.00	359.63	9,055.00	5,481.00	3,627.36	3,637.25	1,607.53	0.00	439,932.05	683,095.44	32°12'29.175727"N	103°44'28.883075"W
1,1900.00 90.00 390.61 9.056.00 5,481.00 3397.36 3,957.24 1,605.59 0.00 440,221.02 (83.09.25) 2271231391911 (37.34.24.28.26.24.27.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.24.27.24.27.24.24.24.27.24.24.24.24.24.24.24.24.24.24.24.24.24.		13,700.00		359.63 359.63	9,055.00	5,481.00 5.481.00	3,727.36 3,827.36	3,737.24 3,837.24		0.00	440,032.04 440,132.03	683,094.80 683,094.15	32°12'30.165275"N 32°12'31 154823"N	103°44'28.884181"W 103°44'28 885287"W
1,100.00 90.00 396.87 9.056.00 5,411.00 4,127.36 4,137.24 1,905.30 0.00 440,422.01 683.092.21 32*12*14*13*46*1*10*14*4*28.895.07*1* 14,200.00 90.00 396.87 9.056.00 5,411.00 4,172.22 4,327.39 1,903.08 2.00 440,822.16 683.092.32*12*15*10*14*14*28.895.07*1* 14,200.00 90.00 396.87 9.056.00 5,411.00 4,172.22 4,327.39 1,903.08 2.00 440,822.16 683.092.32*12*10*10*1*1*10*14*2*8.895.07*1* 14,000.00 90.00 356.67 9.056.00 5,411.00 4,273.06 4,327.23 1,903.08 2.00 440,822.16 683.092.32*12*10*10*1*1*10*14*2*8.895.07*1* 14,000.00 90.00 356.67 9.056.00 5,411.00 4,273.06		13,900.00	90.00	359.63	9,055.00	5,481.00	3,927.36	3,937.24	1,605.59	0.00	440,232.02	683,093.51	32°12'32.144371"N	103°44'28.886394"W
Med Pt T1  4.200.00  5.00.00														
Hold to TD		14,200.00	90.00	359.63	9,055.00	5,481.00	4,227.36	4,237.23	1,603.66	0.00	440,532.00	683,091.57	32°12'35.113013"N	103°44'28.889712"W
14,400.00 90.00 358.67 9.055.00 5.481.00 4.273.8 4.472.38 1.692.45 0.00 4.40,513.86 383,085.73 2.723.8918.79 14,700.00 90.00 358.67 9.055.00 5.481.00 4.273.86 4.572.23 1.692.45 0.00 441,613.66 638,085.73 2.724.40,6907.79 14,700.00 90.00 358.67 9.055.00 5.481.00 4.273.86 4.572.23 1.692.47 0.00 441,613.66 638,085.70 1.692.40 14,700.00 90.00 358.67 9.055.00 5.481.00 4.273.86 4.572.23 1.592.40 0.00 441,613.66 638,085.00 5.481.00 4.273.86 4.572.23 1.592.40 0.00 441,613.66 638,085.00 5.481.00 4.273.86 4.572.23 1.592.40 0.00 441,613.66 638,085.00 5.481.00 1.592.40 0.00 441,613.60 638,085.00 5.481.00 0.00 441,613.60 638,085.00 5.481.00 1.592.40 0.00 441,613.60 638,085.00 5.481.00 1.592.40 0.00 441,613.60 638,085.00 5.481.00 1.592.40 0.00 441,613.60 638,085.00 5.481.00 1.592.40 0.00 441,613.60 638,085.00 5.481.00 0.00 441,613.60 638,085.00 5.481.00 0.00 441,613.60 638,085.00 5.481.00 0.00 441,613.60 638,085.00 5.481.		14,290,16	90.00	359.67	9,055.00	5,481.00	4,317.52	4,327.39	1,603.08	2.00	440.622.15	683,090.99	32°12'36.005181"N	103°44'28.890700"W
14,500,00 90,00 356,67 9,565,00 5,481,00 4,273,6 4,873,22 1,800,874 0,004 44,131,36 633,085,0 271,474,009,007,371 1074,28,981870 14,800,00 90,00 356,67 9,565,00 5,481,00 4,273,6 4,873,22 1,800,874 0,004 44,131,36 633,085,0 271,474,009,007,371 1074,28,981870 15,000,00 90,00 356,67 9,565,00 5,481,00 4,273,6 4,873,22 1,593,40 0,00 441,513,6 633,085,0 271,474,009,007,371 1074,28,981870 15,000,00 90,00 356,67 9,565,00 5,481,00 4,273,6 5,373,21 1,593,80 0,00 441,513,6 633,085,0 271,474,009,00 1074,0		14,300.00						4,337.23			440,631.99		32°12'36.102561"N	103°44'28.890723"W
14,700.00 90.00 359.67 9,055.00 5.481.00 47.27.36 4,737.22 1,000.17 0.00 441,031.96 85,088.05 22124,0000752N 1034-4228 891650V 144,000.00 100.00 359.67 9,055.00 5.481.00 4,427.36 4,437.32 1,596.00 10.00 441,031.35 68,038.05 32124,000040 1034-228 891650V 144,000.00 100.00 359.67 9,055.00 5.481.00 1,5127.36 1,3127.24 1,055.00 10.00 441,031.35 68,036.75 32124,000040 1034-228 891650V 144,000.00 100.00 359.67 9,055.00 5.481.00 1,527.36 5,337.21 1,596.80 10.00 441,031.39 68,036.85 32124,000840 1034-228 89260V 145,000 1034-228 89260V 145,000 100.00 359.67 9,055.00 5.481.00 5,227.36 5,337.21 1,597.88 10.00 441,031.39 68,036.85 32124,000840 11034-228 89260V 145,000 100.00 359.67 9,055.00 5.481.00 5,527.36 5,337.21 1,597.88 10.00 441,031.39 68,036.50 32124,000840 11034-228 89260V 145,000 100.00 359.67 9,055.00 5.481.00 5,527.36 5,537.21 1,596.50 100.00 441,831.39 168,036.50 32124,000840 11034-228 89260V 145,000 100.00 359.67 9,055.00 5.481.00 5,527.36 5,537.21 1,596.50 100.00 441,831.39 168,036.50 32124,000840 11034-228 89260V 145,000 100.00 359.67 9,055.00 5.481.00 5,527.36 5,537.21 1,596.50 100.00 441,831.39 168,036.20 32124,000840 11034-228 89360V 145,000		14,500.00		359.67	9,055.00	5,481.00	4,527.36	4,537.23		0.00	440,831.98		32°12'38.081657"N	103°44'28.891187"W
14,800.00 90.00 359.67 9,055.00 5.481.00 427.36 4,937.22 1,00.01 0.00 441,319.90 683,086.08 22*1241.055300*N 103*4228.981862*W 11,000.00 90.00 359.67 9,055.00 5.481.00 5.027.36 5.037.22 1,399.62 0.00 441,319.90 683,086.08 22*1241.055300*N 103*4228.981862*W 11,000.00 90.00 359.67 9,055.00 5.481.00 5.227.36 5.337.22 1,359.62 0.00 441,319.90 683,086.23 22*1245.05849*N 103*4228.981862*W 11,000.00 90.00 359.67 9,055.00 5.481.00 5.227.36 5.337.22 1,359.62 0.00 441,319.90 683,085.22 22*1245.05849*N 103*4228.981862*W 11,000.00 90.00 359.67 9,055.00 5.481.00 5.227.36 5.337.22 1,359.62 0.00 441,319.22 683,085.22 22*1245.98949*N 103*4228.98309*W 11,000.00 90.00 359.67 9,055.00 5.481.00 5.227.36 5.337.22 1,359.24 1,3														
15,000 00 00 358,67 0,055.00 5,481.00 5,027.36 5,037.22 1,590.02 0.00 441,331.94 883,089.94 227243,023957N 1074728,982347W 15,000 00 00 358,07 0,055.00 5,481.00 5,227.36 5,327.22 1,590.85 0.00 444,531.53 863,085.00 227245,00847N 1074728,982347W 15,000 00 00 358,07 0,055.00 5,481.00 5,227.36 5,537.21 1,590.87 0.00 441,531.83 883,085.00 227245,00847N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 5,527.36 5,537.21 1,590.80 0.00 441,831.91 883,086.00 227247,977.733N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 5,227.36 5,537.21 1,590.80 0.00 441,831.91 883,086.00 227247,977.733N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 5,227.36 5,537.21 1,590.80 0.00 441,831.91 883,086.00 227247,977.733N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 5,227.36 5,537.21 1,590.80 0.00 441,831.91 883,086.00 227247,977.733N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 5,227.36 5,537.21 1,590.80 0.00 442,111.88 883,086.00 227247,977.733N 1074728,982347W 15,000 00 00 358,07 9,055.00 5,481.00 6,227.36 6,037.22 1,590.80 0.00 442,111.88 883,086.00 22725,1272,1272,1272,1272,1272,1272,1272		14,800.00	90.00	359.67	9,055.00	5,481.00	4,827.36	4,837.22	1,600.17	0.00	441,131.96	683,088.08	32°12'41.050300"N	103°44'28.891882"W
15,100.00 90.00 358,67 9,055.00 5,481.00 5,127.36 5,137.22 1,599.88 0.00 441,531.34 883,085.37 2271240,919437N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,327.36 5,337.22 1,597.81 0.00 441,531.32 883,085.22 2271245,599287N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,327.36 5,337.22 1,597.81 0.00 441,531.32 883,085.22 2271245,599287N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,227.36 5,537.22 1,597.81 0.00 441,531.92 883,085.22 2271245,599287N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,827.36 5,837.21 1,598.60 0.00 441,331.90 883,085.51 327124,9596887N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,827.36 5,837.21 1,598.60 0.00 441,331.90 883,085.51 327124,9596887N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,827.36 5,837.21 1,598.40 0.00 442,131.88 883,082.37 227124,9596887N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 5,827.36 5,837.21 1,598.40 0.00 442,131.88 883,082.37 227124,9596887N 1074-28.89257W 15,500.00 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.21 1,598.47 0.00 442,131.88 883,082.37 227125,95675N 1074-28.89457W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,527.36 6,137.20 1,592.75 0.00 442,431.86 883,080.66 3271243,959687N 1074-28.89457W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,592.17 0.00 442,431.86 883,080.66 3271243,959687N 1074-28.89457W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,592.17 0.00 442,431.86 883,080.66 3271253,314417N 1074-28.894587W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,592.17 0.00 442,431.86 883,080.66 3271253,314417N 1074-28.894587W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,591.81 0.00 442,531.83 883,077.81 2371258,855.11 N 1074-28.894587W 16,500.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,591.81 0.00 442,331.83 883,077.81 2371258,855.11 N 1074-28.894587W 17,000.00 90.00 358,67 9,055.00 5,481.00 6,277.36 6,337.20 1,591.81 0.00 442,331.83 883,077.81 2371258,855.11 N 1074-28.894587W 17,000.00 90.00 358,67 9														
15,300.00 90.00 359.67 9,055.00 5,481.00 5,327.36 5,337.22 1,596.74 0.00 441,731.91 683,085.22 2,272.58963878 1/337428.898327W 15,500.00 359.67 9,055.00 5,481.00 5,527.36 5,537.21 1,586.17 0.00 441,731.91 683,046.50 2,727.47.2893527W 15,500.00 90.00 359.67 9,055.00 5,481.00 5,527.36 5,537.21 1,586.17 0.00 441,231.91 683,046.50 2,727.47.2893527W 15,500.00 90.00 359.67 9,055.00 5,481.00 5,827.36 5,837.21 1,586.17 0.00 442,031.89 683,082.23 2,727.299.85227W 15,500.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,082.37 2,727.599.85227W 15,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,082.37 2,727.299.85227W 15,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,082.37 2,727.299.85227W 15,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,082.37 2,727.299.85227W 10,742.8984527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,082.37 2,727.299.85227W 10,742.8984527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.32 0.00 442,231.88 683,076.33 2,727.299.85227W 10,742.8984527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,027.36 6,037.20 1,593.72 1,593.32 0.00 442,231.88 683,076.33 2,727.299.85227W 10,742.8984527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,527.36 6,537.20 1,593.74 0.00 442,231.88 683,076.33 2,727.299.85227W 10,742.898527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,527.36 6,537.20 1,593.74 0.00 442,231.88 683,076.33 2,727.299.85227W 10,742.898527W 16,000.00 90.00 359.67 9,055.00 5,481.00 6,527.36 6,537.20 1,593.74 0.00 442,231.88 683,076.33 2,727.299.85227W 10,742.898527W 10,7		15,100.00	90.00	359.67	9,055.00	5,481.00	5,127.36	5,137.22	1,598.45	0.00	441,431.94	683,086.37	32°12'44.018943"N	103°44'28.892576"W
15,400.00 90.0 359.67 9,055.00 5,481.00 5,427.36 5,537.21 1,596.74 0.00 441,831.31 883,046.8 22*12*4.95786*1*10.3*422.8893270*V 15,500.00 90.0 359.67 9,055.00 5,481.00 5,627.36 5,537.21 1,585.00 0.0 441,831.31 883,046.8 32*12*4.95786*3*0*13*42*2.8893270*V 15,500.00 90.0 359.67 9,055.00 5,481.00 5,627.36 5,837.21 1,585.00 0.0 441,831.31 883,046.8 32*12*4.958680*N 103*42*2.8893270*V 15,500.00 90.0 359.67 9,055.00 5,481.00 6,527.36 5,537.21 1,585.00 0.0 442,313.8 883,081.3 32*12*6.958322*N 103*42*2.889420*V 15,500.00 90.0 359.67 9,055.00 5,481.00 6,527.36 5,937.21 1,583.89 0.00 442,231.88 883,081.3 32*12*59.958322*N 103*42*2.889420*V 15,500.00 90.0 359.67 9,055.00 5,481.00 6,227.36 6,027.36 6,037.20 1,593.32 0.00 442,331.8 883,081.3 32*12*59.958322*N 103*42*2.889420*V 15,500.00 90.0 359.67 9,055.00 5,481.00 6,227.36 6,137.20 1,593.32 0.00 442,31.81 883,081.3 32*12*59.958322*N 103*42*2.8894820*V 15,500.00 90.0 359.67 9,055.00 5,481.00 6,127.36 6,137.30 1,593.24 1,594.24 1,5		15,200.00 15,300.00				5,481.00 5.481.00	5,227.36 5.327.36	5,237.22 5.337.22	1,597.88 1.597.31	0.00	441,531.93 441.631.92		32°12'45.008491"N 32°12'45.998038"N	103°44'28.892807"W 103°44'28.893039"W
15,000.00 90.00 358,67 9,055.00 5,481.00 5,227.36 5,357.21 1,595.60 0.00 441,931.90 683,083.51 3271248,98689N 1037428,98936PW 15,000.00 90.00 358,67 9,055.00 5,481.00 5,227.36 5,357.21 1,595.60 0.00 442,713.88 683,082.37 3271259,04775N 1037428,98936PW 15,000.00 90.00 358,67 9,055.00 5,481.00 6,227.36 6,377.21 1,595.80 0.00 442,213.88 683,082.37 3271259,04775N 1037428,98936PW 16,000.00 90.00 358,67 9,055.00 5,481.00 6,227.36 6,377.20 1,592.18 0.00 442,431.86 683,082.37 3271259,94757N 1037428,98936PW 16,000 90.00 358,67 9,055.00 5,481.00 6,227.36 6,337.20 1,591.61 0.00 442,431.86 683,080.86 3271253,91417N 1037428,98936PW 16,000 90.00 358,67 9,055.00 5,481.00 6,227.36 6,337.20 1,591.61 0.00 442,513.86 633,080.60 3271253,91417N 1037428,98936PW 16,000 90.00 358,67 9,055.00 5,481.00 6,327.36 6,337.20 1,591.61 0.00 442,513.86 633,080.86 3271255,98936PM 1037428,98936PW 16,000 90.00 358,67 9,055.00 5,481.00 6,327.36 6,337.20 1,591.61 0.00 442,513.86 633,080.87 3271256,98936PM 1037428,98936PW 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 442,513.85 633,078.32 3271256,89351PM 1037428,98955PW 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 442,513.85 633,078.32 3271256,89351PM 1037428,98555PW 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 442,513.85 633,078.32 3271256,89351PM 1037428,9855PW 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 442,513.81 633,076.52 3271256,98051PM 1037428,9855PW 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 442,513.81 633,076.52 3271256,9851PM 1037428,9851PW 17,000.00 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,590.47 0.00 444,313.18 1 633,076.67 327130,84126PM 1037428,9851PW 17,000.00 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.19 1,580.47 0.00 444,313.18 1 633,076.52 3271328,0735PM 1037428,9851PW 17,000.00 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.19 1,580.47 0.00 444,313.18 1 633,076.52 3271328,0735PM 1037428,9851PW 17,000.00 90.00 358,67 9,055.00 5,481.00 7,227.36 7							5.427.36	5.437.21			441 731 91		32°12'46.987586"N	103°44'28.893270"W
15,700.00 90.0 358,67 9,055.00 5,481.00 5,273.6 5,373.21 1,595.03 0.00 442,031.89 683,082.94 327124,956228*N 1037428,989458*W 15,900.00 90.00 358,67 9,055.00 5,481.00 5,227.36 5,337.21 1,595.89 0.00 442,231.88 683,082.39 227125,935322*N 1037428,989458*W 16,000.00 90.00 358,67 9,055.00 5,481.00 6,227.36 6,327.30 1,593.28 0.00 442,231.86 683,081.90 327125,935322*N 1037428,989458*W 16,000.00 90.00 358,67 9,055.00 5,481.00 6,227.36 6,237.20 1,593.18 0.00 442,231.86 683,081.90 327125,935322*N 1037428,989458*W 16,000.00 90.00 358,67 9,055.00 5,481.00 6,327.36 6,327.30 1,591.04 0.00 442,231.86 683,080.90 327125,935322*N 1037428,989585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,327.36 6,327.30 1,591.04 0.00 442,231.86 683,076.93 237125,889585*N 1037428,89585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,337.90 1,591.04 0.00 442,231.86 683,078.93 237125,889585*N 1037428,89585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.20 1,591.04 0.00 442,231.83 683,078.33 237125,78585*N 1037428,89585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.19 1,589.32 0.00 442,231.83 683,078.33 237125,78585*N 1037428,89585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.19 1,589.32 0.00 442,231.83 683,078.31 237125,8885*15*N 1037428,89585*W 16,000 90.00 358,67 9,055.00 5,481.00 6,527.36 6,537.19 1,589.32 0.00 443,313.18 683,078.27 237125,8895*10*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.00 5,481.00 6,273.36 6,537.19 1,589.32 0.00 443,313.18 683,078.51 237125,8885*10*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.00 5,481.00 6,273.36 6,377.19 1,589.32 0.00 443,313.18 683,078.31 237125,8885*10*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.00 5,481.00 6,273.36 6,377.19 1,588.75 0.00 443,313.18 683,078.31 237125,8885*10*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.00 5,481.00 6,273.36 6,377.19 1,588.75 0.00 443,313.18 683,078.31 237125,8895*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.00 5,481.00 7,227.36 7,337.19 1,588.75 0.00 443,313.18 683,078.31 237125,8895*N 1037428,89585*W 17,000.00 90.00 358,67 9,055.0		15,600.00	90.00	359.67	9,055.00	5,481.00	5,627.36	5,637.21	1,595.60	0.00	441,931.90	683,083.51	32°12'48.966680"N	103°44'28.893732"W
15,900.00   90.00   359.67   9,055.00   5,481.00   6,027.36   6,037.20   1,958.38   0.00   442,231.88   683,081.60   22°1251.855227N 103°4428.894657W   16,100.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,137.20   1,592.75   0.00   442,431.86   683,080.66   32°1253.31447N 103°4428.894657W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,137.20   1,592.75   0.00   442,631.86   683,080.66   32°1253.31447N 103°4428.894657W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,337.20   1,591.81   0.00   442,631.86   683,090.69   32°1253.83517N 103°4428.894657W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,337.20   1,591.81   0.00   442,631.85   683,079.52   32°1253.83517N 103°4428.895657W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,637.30   1,589.89   0.00   442,931.83   863,077.81   32°1258.895357N 103°4428.895657W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,637.30   1,588.89   0.00   442,931.83   683,077.81   32°1258.895657W 103°4428.895677W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,637.30   1,588.89   0.00   442,331.80   683,076.67   32°1258.895677W   103°4428.895677W   16,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,637.30   1,588.78   0.00   443,331.80   683,076.67   32°1203.841248N   103°4428.895677W   17,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,337.19   1,588.78   0.00   443,331.80   683,076.67   32°130.841248N   103°4428.895677W   17,200.00   90.00   359.67   9,055.00   5,481.00   6,227.36   6,337.19   1,588.78   0.00   444,331.30   683,075.52   32°130.841248N   103°4428.895677W   17,200.00   90.00   359.67   9,055.00   5,481.00   7,227.36   7,337.18   1,588.90   0.00   444,331.73   683,073.81   32°137.885678   103°4428.895677W   17,200.00   90.00   359.67   9,055.00   5,481.00   7,227.36   7,337.18   1,588.90   0.00   444,331.73   683,073.81   32°137.885678   103°4428.895677W   17,200.00   90.00   359.67   9,055.00   5,481.00   7,227.36   7,33		15,700.00		359.67	9,055.00	5,481.00	5,727.36	5,737.21	1,595.03	0.00	442,031.89		32°12'49.956228"N	103°44'28.893964"W
16,100,00 90,00 359,67 9,055,00 5,481,00 6,127.36 6,137.20 1,592.16 0.00 442,513.66 683,08.09 22*125.914417*N 103*428.89488*N*W 16,200,00 90,00 359,67 9,055,00 5,481,00 6,327.36 6,237.20 1,591.81 0.00 442,513.65 683,075.52 22*1255.89351*N 103*428.89550*W 16,500,00 90,00 359,67 9,055,00 5,481,00 6,327.36 6,337.20 1,591.81 0.00 442,731.84 683,076.93 22*1255.89351*N 103*428.89550*W 16,500,00 90,00 359,67 9,055,00 5,481.00 6,527.36 6,337.20 1,591.81 0.00 442,731.84 883,077.83 22*1255.89351*N 103*428.89550*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,527.36 6,337.39 1,591.84 0.00 442,731.84 883,077.83 22*1255.89351*N 103*428.89550*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,227.36 6,337.39 1,591.84 0.00 442,513.81 883,077.83 22*1255.89351*N 103*428.89550*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,227.36 6,937.19 1,588.75 0.00 442,513.81 683,076.93 22*1255.89351*N 103*428.895674*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,227.36 6,937.19 1,588.75 0.00 442,513.81 683,076.93 22*131.89369*N 103*428.895674*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,227.36 6,937.19 1,588.76 0.00 443,513.18 683,076.93 22*131.89369*N 103*428.895674*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,027.36 7,337.19 1,587.61 0.00 443,513.18 683,076.93 22*131.8956*N 17,000,00 90,00 359,67 9,055,00 5,481.00 7,027.36 7,337.19 1,587.61 0.00 443,513.76 683,076.32 22*133.89689*N 103*428.89569*W 17,200,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.41 0.00 443,513.76 683,076.32 22*133.89569*N 103*428.89576*W 17,200,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.30 0.00 443,513.76 683,076.33 22*133.799433*N 103*428.89576*W 17,200,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.30 0.00 443,513.76 683,076.33 22*133.799433*N 103*428.89576*W 17,200,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.49 0.00 443,513.76 683,076.32 22*133.75969*N 103*428.89576*W 17,200,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.49 0.00 443,513.76 683,076.33 22*133.75969*N 103*428.89576*W 17,200.00 90,00 359,67 9,055,00 5,		15,900.00	90.00	359.67	9,055.00	5,481.00	5,927.36	5,937.21	1,593.89	0.00	442,231.88	683,081.80	32°12'51.935322"N	103°44'28.894426"W
16,200,00 90,00 359,67 9,055,00 5,481,00 6,227.36 6,337.20 1,591.61 0,00 442,531.86 83,080,09 32*1254,903964*N 103*428,895159*W 16,400,00 90,00 359,67 9,055,00 5,481,00 6,427.36 6,437.20 1,591.61 0,00 442,531.86 83,078.95 22*1256,88351*N 103*428,89580*W 16,600,00 90,00 359,67 9,055,00 5,481.00 6,427.36 6,537.20 1,590.47 0,00 442,813.38 633,078.39 22*1256,88351*N 103*428,89580*W 16,600,00 90,00 359,67 9,055,00 5,481.00 6,627.36 6,537.20 1,590.47 0,00 442,813.38 633,078.39 22*1256,886215*N 103*428,89580*W 16,600,00 90,00 359,67 9,055,00 5,481.00 6,827.36 6,837.19 1,589.89 0,00 442,831.33 683,078.39 22*1256,886215*N 103*428,89580*W 16,600,00 90,00 359,67 9,055,00 5,481.00 6,827.36 6,837.19 1,589.89 0,00 443,031.32 683,077.81 22*1258,866215*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,827.36 6,837.19 1,589.87 0,00 443,031.32 683,077.81 22*1258,866215*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 6,827.36 6,837.19 1,589.87 0,00 443,031.32 683,075.67 32*131.83072*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,027.36 7,337.18 1,587.81 0,00 443,231.31 83,00 83,075.52 32*131.83072*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,027.36 7,337.18 1,587.81 0,00 443,531.36 83,075.52 32*131.83072*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,327.36 7,337.18 1,585.00 0,00 443,531.76 83,072.81 32*133,78897*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.00 0,00 443,531.76 83,072.81 32*133,78897*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.47 0,00 443,531.76 83,072.81 32*133,78897*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.47 0,00 444,331.37 683,070.39 32*133,776807*N 103*428,89580*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.47 0,00 444,331.37 683,070.39 32*133,776807*N 103*428,89590*W 17,000,00 90,00 359,67 9,055,00 5,481.00 7,227.36 7,337.18 1,585.31 0,00 444,331.37 683,070.39 32*1313,756907*N 103*428,89590*W 17,000,00 90,0		16,000.00		359.67 359.67	9,055.00	5,481.00	6,027.36	6,037.20	1,593.32	0.00	442,331.87	683,081.23	32°12'52.924870"N 32°12'53 914417"N	103°44'28.894657"W
16,400,00 90,00 359 67 9,055,00 5,481,00 6,427.36 6,537.20 1,590.47 0,00 442,818 683,078.95 22*1258,883068*N 103*428,89586*W 16,600,00 90,00 359 67 9,055,00 5,481,00 6,627.36 6,537.19 1,589.89 0,00 442,818.86 83,078.93 22*1258,886195*N 103*428,889622*W 16,600,00 90,00 359 67 9,055,00 5,481,00 6,827.36 6,837.19 1,589.89 0,00 443,031.86 83,077.81 22*1258,886195*N 103*428,889622*W 16,600,00 90,00 359 67 9,055,00 5,481,00 6,827.36 6,837.19 1,589.87 0,00 443,031.86 83,077.81 22*1258,886195*N 103*428,889622*W 17,000,00 90,00 359 67 9,055,00 5,481,00 6,827.36 6,837.19 1,589.87 0,00 443,031.81 683,076.67 32*133,89868*N 103*4248,889624*W 17,000,00 90,00 359 67 9,055,00 5,481,00 7,027.38 7,037.19 1,587.61 0,00 443,231.81 683,076.67 32*133,89868*N 103*4248,88963*W 17,000,00 90,00 359 67 9,055,00 5,481,00 7,027.38 7,137.19 1,587.61 0,00 443,331.80 83,075.52 32*133,89868*N 103*4248,88963*W 17,000,00 90,00 359 67 9,055,00 5,481,00 7,227.38 7,137.19 1,587.61 0,00 443,341.79 83,075.52 32*133,89868*N 103*4248,88963*W 17,200,00 90,00 359 67 9,055,00 5,481,00 7,227.38 7,137.19 1,587.61 0,00 443,341.79 83,075.52 32*133,89868*N 103*4248,88963*W 17,200,00 90,00 359 67 9,055,00 5,481,00 7,227.38 7,137.19 1,587.61 0,00 443,341.79 83,074.32 32*134,79845*N 103*4248,88976*W 17,200,00 90,00 359 67 9,055,00 5,481,00 7,227.38 7,437.18 1,585.40 0,00 443,341.77 83,074.32 32*134,79845*N 103*4248,88978*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,527.36 7,537.18 1,584.76 0,00 443,341.77 83,074.32 32*134,778687*N 103*428,88978*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,227.36 7,337.18 1,584.76 0,00 444,331.77 83,074.32 32*134,778687*N 103*428,88978*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,227.36 7,337.18 1,584.76 0,00 444,331.77 83,074.77 83,074.78 1,750.00 90,00 359 67 9,055,00 5,481,00 7,227.36 7,337.18 1,584.76 0,00 444,331.77 83,074.77 83,074.78 1,750.00 90,00 359 67 9,055,00 5,481,00 7,227.36 7,337.18 1,584.80 0,00 444,331.77 83,074.80 32*131,776807*N 103*428,889987*W 17,500,00 9,00 359 67 9,055,00 5,481,00 7,227.36 7,337.18 1,584.80		16,200.00	90.00	359.67	9,055.00	5,481.00	6,227.36	6,237.20	1,592.18	0.00	442,531.86	683,080.09	32°12'54.903964"N	103°44'28.895119"W
16,500.00 90.00 359.67 9,055.00 5,481.00 6,527.36 6,537.20 1,599.47 0.00 442,931.83 683,077.83 22*1275.872605*N 103*4428.896942*W 16,700.00 90.00 359.67 9,055.00 5,481.00 6,27.36 6,537.79 1,589.89 0.00 442,931.86 683,077.81 22*1258.896125*N 103*4428.896942*W 16,700.00 90.00 359.67 9,055.00 5,481.00 6,727.36 6,837.19 1,589.32 0.00 443,131.81 683,076.50 22*131.83072*N 103*4428.896937*W 16,800.00 90.00 359.67 9,055.00 5,481.00 6,727.36 6,837.19 1,589.15 0.00 443,131.81 683,076.50 22*131.83072*N 103*4428.89673*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,127.36 7,137.19 1,587.04 0.00 443,131.81 683,076.50 22*131.83072*N 103*4428.89673*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,586.47 0.00 443,631.81 683,076.50 32*131.83072*N 103*4428.89673*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,586.47 0.00 443,631.78 683,074.38 32*133.789687*N 103*4428.8975*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,586.47 0.00 443,631.78 683,074.38 32*133.789687*N 103*4428.8975*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,437.18 1,585.30 0.00 443,631.76 683,074.38 32*133.789687*N 103*4428.8975*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,537.18 1,585.30 0.00 443,631.76 683,074.28 32*133.789687*N 103*4428.8975*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,537.18 1,585.40 0.00 443,831.76 683,074.28 32*133.789687*N 103*4428.8975*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,537.18 1,585.41 0.00 443,831.76 683,074.28 32*133.787697*N 103*4428.8985*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,627.36 7,537.18 1,585.41 0.00 443,831.76 683,074.28 32*133.77697*N 103*4428.8985*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,627.36 7,337.18 1,583.05 0.00 444,331.73 683,074.10 32*133.77697*N 103*4428.8985*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,627.36 7,337.18 1,583.05 0.00 444,331.73 683,074.10 32*133.77697*N 103*4428.8985*W 17,700.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,583.05 0.00 444,331.71 683,076.90 32*133.77697*N 103*4428.89967*W 17,700.00 9													32°12'55.893511"N 32°12'56.883058"N	103°44'28.895350"W
16,700.00 90.00 359 67 9,055.00 5,481.00 6,273.6 6,273.19 1,589.32 0.00 443,131.81 683,076.67 32*133.81698**N 103*4428.896273**N 15,980.00 90.00 359 67 9,055.00 5,481.00 6,273.86 6,837.19 1,588.75 0.00 443,131.81 683,076.67 32*133.813073**N 103*428.896273**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,227.38 7,337.18 1,585.61 0.00 443,131.31 683,076.97 32*133.813073**N 103*428.896273**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,227.38 7,337.18 1,585.30 0.00 443,531.30 683,075.52 32*132.823073**N 103*428.896273**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,227.38 7,337.18 1,585.30 0.00 443,531.78 683,074.33 32*133,709433**N 103*428.896273**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,427.38 7,437.18 1,585.30 0.00 443,831.78 683,073.81 32*133,709433**N 103*428.89628**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,427.38 7,537.18 1,585.30 0.00 443,831.78 683,073.81 32*133,709433**N 103*428.89628**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,427.38 7,537.18 1,585.30 0.00 443,831.78 683,073.81 32*133,77852**N 103*428.89628**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,627.38 7,537.18 1,585.30 0.00 443,831.76 683,072.50 32*133,77852**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,627.38 7,537.18 1,585.40 0.00 443,831.76 683,072.50 32*133,77851**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,627.38 7,537.18 1,585.40 0.00 443,831.76 683,072.50 32*133,77651**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,627.38 7,337.18 1,583.05 0.00 444,331.73 683,070.90 32*133,77651**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,827.38 7,337.18 1,583.05 0.00 444,331.73 683,070.90 32*133,77651**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,827.38 7,337.18 1,583.05 0.00 444,331.73 683,070.90 32*133,77651**N 103*428.89638**N 17,700.00 90.00 359 67 9,055.00 5,481.00 7,827.38 7,337.18 1,583.05 0.00 444,331.73 683,070.90 32*133,77651**N 103*428.89638**N 103*428.89638**N 103*428.89638**N 103*428.89638**N 103*428.89638**N 103*428.89638**N 103*428.89638**N 103*428.89638		16,500.00	90.00	359.67	9,055.00	5,481.00	6,527.36	6,537.20	1,590.47	0.00	442,831.83	683,078.38	32°12'57.872605"N	103°44'28.895811"W
16,900.00 90.0 359.67 9,055.00 5,481.00 6,927.36 6,937.19 1,588.18 0.00 443,331.86 683,075.09 32*131.830792*N 103*428.889694*W 17,100.00 90.00 359.67 9,055.00 5,481.00 7,127.36 7,337.19 1,587.64 0.00 443,331.96 683,075.52 32*132.8203939*N 103*428.889794*W 17,200.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,585.90 0.00 443,531.86 683,075.52 32*133.890886*N 103*428.889794*W 17,200.00 90.00 359.67 9,055.00 5,481.00 7,327.36 7,337.18 1,585.90 0.00 443,531.76 683,072.81 32*133.788979*N 103*428.89756*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,527.36 7,437.18 1,585.37 0.00 443,531.76 683,072.81 32*133.788979*N 103*428.89756*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,527.36 7,537.18 1,584.76 0.00 443,531.76 683,072.81 32*133.778607*N 103*428.899756*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,527.36 7,637.18 1,584.76 0.00 443,931.76 683,072.81 32*133.778607*N 103*428.899156*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,637.18 1,584.76 0.00 443,931.76 683,072.81 32*133.778607*N 103*428.899156*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,583.62 0.00 444,031.75 683,071.53 32*133.773619*N 103*428.899157*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,583.62 0.00 444,031.75 683,071.53 32*133.773619*N 103*428.899897*W 17,900.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.17 1,582.48 0.00 444,331.78 683,070.39 32*1331.73625*N 103*428.899897*W 17,900.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.17 1,582.48 0.00 444,331.78 683,070.39 32*1311.73625*N 103*428.899897*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,582.48 0.00 444,331.78 683,070.39 32*1311.73625*N 103*428.899897*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,581.31 0.00 444,331.78 683,070.39 32*1311.73625*N 103*428.899897*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,581.31 0.00 444,331.78 683,070.39 32*1311.73625*N 103*428.899897*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,237.17 1,581.31 0.00 444,431.71 83,068.23 32*1311.73625*N 103*428.899997*W 1		16,700.00	90.00	359.67	9,055.00	5.481.00	6,727.36	6,737.19	1,589.32	0.00	443.031.82	683,077.24	32°12'59.851699"N	103°44'28.896273"W
17,000.00 90.00 359.67 9,055.00 5,481.00 7,027.36 7,337.19 1,587.61 0.00 443,331.80 683,075.52 22*132.820339*N 103*428.89969*W 17,200.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,586.47 0.00 443,431.79 683,074.89 22*133.899896*N 103*428.89978*W 17,200.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,337.18 1,585.30 0.00 443,531.78 683,074.89 32*133.799433*N 103*428.89978*W 17,400.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,437.18 1,585.33 0.00 443,531.78 683,073.81 22*133.789897*N 103*428.89978*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,437.18 1,585.33 0.00 443,531.76 683,072.42 32*133.778528*N 103*428.89978*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,437.18 1,585.31 0.00 443,831.76 683,072.42 32*133.77852*N 103*428.89988*I*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,437.18 1,585.43 0.00 443,831.76 683,072.10 32*133.77852*N 103*428.89988*I*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,427.36 7,837.17 1,583.05 0.00 444,31.77 683,072.10 32*133.77691*N 103*428.89988*I*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,837.17 1,583.05 0.00 444,31.72 683,070.39 32*1317.76791*N 103*428.89988*I*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,837.17 1,583.05 0.00 444,31.72 683,070.39 32*1317.76791*N 103*428.899897*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,837.17 1,583.05 0.00 444,31.72 683,070.39 32*1317.76791*N 103*428.89987*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,583.05 0.00 444,31.72 683,068.25 32*1317.765951*N 103*428.89997*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,51.71 683,068.11 32*1317.66936*N 103*428.89997*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,51.71 683,068.11 32*1317.66936*N 103*428.89997*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,531.76 683,068.81 32*1317.66936*N 103*428.89997*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.16 1,579.05 0.00 444,531.66 83,064.83 22*1318.659987*N 103*428.89997*W 18,000.00 90.0						5,481.00					443,131.81			
17,200,00 90,00 359 67 9,055,00 5,481,00 7,227.36 7,237.18 1,586.87 0,00 443,531.78 683,074.38 32*134.799433*N 103*428.897425*W 17,400,00 90,00 359 67 9,055,00 5,481,00 7,427.36 7,437.18 1,585.33 0,00 443,531.76 683,072.54 32*135.785979*N 103*428.897845*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,627.36 7,537.18 1,585.33 0,00 443,531.76 683,072.54 32*135.778526*N 103*428.897885*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,627.36 7,637.18 1,584.19 0,00 443,831.76 683,072.57 103*428.89885*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,627.36 7,737.18 1,583.36 0,00 444,031.76 683,072.10 32*133.757619*N 103*428.89885*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,827.36 7,737.18 1,583.36 0,00 444,031.76 683,072.10 32*133.757619*N 103*428.89885*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,827.36 7,837.17 1,583.36 0,00 444,031.76 683,072.10 32*133.757619*N 103*428.89885*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,827.36 7,837.17 1,583.36 0,00 444,131.74 683,070.96 32*1311.73655*N 103*428.89895*W 17,500,00 90,00 359 67 9,055,00 5,481,00 7,827.36 7,837.17 1,583.36 0,00 444,431.72 683,070.96 32*1311.7365*N 103*428.89895*W 17,500,00 90,00 359 67 9,055,00 5,481,00 8,127.36 8,137.17 1,583.36 0,00 444,431.72 683,070.96 32*1311.7365*N 103*428.89895*W 17,500,00 90,00 359 67 9,055,00 5,481,00 8,127.36 8,137.17 1,580.76 0,00 444,431.72 683,086.83 32*1311.7565*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481,00 8,127.36 8,137.17 1,580.76 0,00 444,51.71 683,086.83 32*1311.656*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481,00 8,227.36 8,337.17 1,580.19 0,00 444,51.71 683,086.83 32*1311.656*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481.00 8,227.36 8,337.16 1,579.05 0,00 444,531.76 683,066.97 32*1311.656*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481.00 8,227.36 8,337.16 1,579.05 0,00 444,531.66 683,066.97 32*1311.656*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481.00 8,227.36 8,337.16 1,579.05 0,00 444,531.66 683,066.97 32*13116.55999*N 103*428.89995*W 18,500,00 90,00 359 67 9,055,00 5,481.0						5,481.00			1,588.18		443,331.80		32°13'2.820339"N	103°44'28.896964"W
17,300.00 90.00 359.67 9,055.00 5,481.00 7,327.36 7,337.18 1,585.90 0.00 443,731.77 683,073.24 22*135.786826*1 103*428.897656*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,527.36 7,357.18 1,584.76 0.00 443,731.77 683,073.24 22*135.786826*N 103*428.89816*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,527.36 7,637.18 1,584.76 0.00 443,931.76 683,072.67 32*133.776807*N 103*428.89816*W 17,700.00 90.00 359.67 9,055.00 5,481.00 7,727.36 7,737.18 1,583.82 0.00 444,031.75 683,072.50 32*133.776807*N 103*428.89816*W 17,500.00 90.00 359.67 9,055.00 5,481.00 7,727.36 7,837.17 1,582.48 0.00 444,131.76 683,072.10 32*133.77616*N 103*428.89897*W 17,900.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,837.17 1,582.48 0.00 444,31.73 683,070.39 32*1317.73625*N 103*428.89897*W 18,000.00 90.00 359.67 9,055.00 5,481.00 7,227.36 7,387.17 1,582.48 0.00 444,31.73 683,070.39 32*1317.73625*N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,581.31 0.00 444,31.73 683,070.39 32*1317.73625*N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,237.17 1,581.31 0.00 444,31.72 683,070.39 32*1317.73625*N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,237.17 1,581.31 0.00 444,31.72 683,070.39 32*1317.73625*N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,237.17 1,581.31 0.00 444,431.72 683,086.22 32*1317.055*N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,237.17 1,580.24 0.00 444,431.72 683,086.23 32*1315.688447N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,273.8 8,371.6 1,570.6 0.00 444,531.71 683,086.13 32*1315.688447N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,273.8 8,371.6 1,570.6 0.00 444,531.76 683,086.23 32*1315.688447N 103*428.89937*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,273.8 8,371.6 1,570.5 0.00 444,531.8 683,086.23 32*1315.68826*N 103*428.899387*W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,273.8 8,371.6 1,570.5 0.00 444,531.8 683,086.23 32*1316.85826*N 103*428.899387*W 18,000.00 90.00 359.67 9,055.00 5														
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17,600.00 90.0 359 67 9,055.00 5,481.00 7,827.36 7,837.18 1,584.19 0.00 443,931.76 883,072.10 32*138,776*19*N 103*4428.89837*W 17,700.00 90.00 359 67 9,055.00 5,481.00 7,827.36 7,373.18 1,583.05 0.00 444,131.74 683,070.96 32*1317,0736*72*N 103*4428.898937*W 17,700.00 90.00 359 67 9,055.00 5,481.00 7,827.36 7,337.17 1,581.36 0.00 444,131.74 683,070.96 32*1311,726*72*N 103*4428.898937*W 18,000.00 90.00 359 67 9,055.00 5,481.00 8,027.36 8,307.17 1,581.91 0.00 444,231.73 683,070.93 22*1311,726*72*N 103*4428.898937*W 18,000.00 90.00 359 67 9,055.00 5,481.00 8,027.36 8,307.17 1,581.91 0.00 444,331.73 683,068.82 32*1311,726*52*N 103*4428.898937*W 18,200.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,327.17 1,580.76 0.00 444,531.71 683,068.68 32*1311,684987*N 103*4428.899957*W 18,200.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.76 0.00 444,531.71 683,068.68 32*1311,684987*N 103*4428.899957*W 18,400.00 90.00 359 67 9,055.00 5,481.00 8,427.36 8,437.16 1,579.92 0.00 444,531.71 683,068.11 22*1315,684437*N 103*4428.899957*W 18,400.00 90.00 359 67 9,055.00 5,481.00 8,427.36 8,537.16 1,579.92 0.00 444,531.76 683,065.27 32*1317,65537*N 103*4428.899957*W 18,600.00 90.00 359 67 9,055.00 5,481.00 8,427.36 8,537.16 1,579.92 0.00 444,531.76 683,065.27 32*1317,65537*N 103*4428.899957*W 18,600.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.92 0.00 444,831.68 683,066.93 32*1315,65538*N 103*4428.900187*W 18,600.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,377.16 1,579.82 0.00 444,531.66 683,066.93 32*1315,65508*N 103*4428.900187*W 18,600.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,377.16 1,577.34 0.00 445,531.66 683,066.83 32*1315,65508*N 103*4428.900187*W 18,600.00 90.00 359 67 9,055.00 5,481.00 8,227.36 8,377.16 1,577.34 0.00 445,531.66 683,066.83 32*1315,65508*N 103*4428.900187*W 18,600.00 90.00 359 67 9,055.00 5,481.00 9,027.36 9,377.15 1,575.66 0.00 445,531.66 683,066.81 32*1315,65508*N 103*4428.900187*W 18,000.00 90.00 359 67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.06 0.00 445,531.66 683,066.81 32*13125,5		17,400.00			9,055.00	5,481.00	7,427.36	7,437.18		0.00	443,731.77	683,073.24	32°13'6.778526"N	103°44'28.897886"W
17,800.00 90.00 359.67 9,055.00 5,481.00 7,927.36 7,837.17 1,582.48 0.00 444,131.74 83,070.96 32"13117,2652"N 103"4428,989807"W 18,000.00 90.00 359.67 9,055.00 5,481.00 422.89826"W 18,000.00 90.00 359.67 9,055.00 5,481.00 422.89826"W 18,000.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,581.91 0.00 444,331.73 83,069.82 32"13117,26528"N 103"428,99267"W 18,200.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,237.17 1,580.76 0.00 444,531.71 83,068.68 32"1311,4694897"N 103"428,99267"W 18,200.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,237.17 1,580.76 0.00 444,531.71 83,068.68 32"1311,4694897"N 103"428,99297"W 18,400.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,237.17 1,580.76 0.00 444,531.71 83,066.68 32"1311,6693897"N 103"428,99297"W 18,400.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,237.16 1,579.92 0.00 444,531.71 83,066.68 32"1311,669380"N 103"428,900187"W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.92 0.00 444,531.76 83,066.39 32"1311,6653982"N 103"428,900187"W 18,600.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,371.60 1,579.42 0.00 444,931.68 83,066.39 32"1311,6653982"N 103"428,900187"W 18,600.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,371.60 1,579.42 0.00 444,931.68 83,066.39 32"1311,6653982"N 103"428,900187"W 18,800.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,371.60 1,577.34 0.00 445,531.66 83,066.39 32"1311,6653982"N 103"428,9001647W 18,800.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.16 1,577.34 0.00 445,531.66 83,066.83 32"1311,6653982"N 103"428,9001647W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,027.36 8,337.16 1,575.60 0.00 445,331.66 83,064.11 32"1322.611266"N 103"428,901657W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.66 0.00 445,531.66 83,064.13 22"1322.5509187"N 103"428,901657W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.66 0.00 445,531.66 83,064.83 32"13216,265207*N 103"428,901657W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.66 0.00 445,531.66 83,064.83 32"1322.5509187*N 103"428,901657W 19,000.00 90.00 3		17,600.00	90.00	359.67	9,055.00	5,481.00	7,627.36	7,637.18	1,584.19	0.00	443,931.76	683,072.10	32°13'8.757619"N	103°44'28.898347"W
17,900.00 90.00 359.67 9,055.00 5,481.00 8,727.36 8,337.17 1,582.48 0.00 444,231.73 683,070.39 22*1311.726258*N 103*428.899937*W 18,100.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,337.17 1,581.31 0.00 444,331.73 683,070.39 22*1311.726258*N 103*428.899937*W 18,200.00 90.00 359.67 9,055.00 5,481.00 8,127.36 8,237.17 1,581.33 0.00 444,431.72 683,068.25 22*1313.705351*N 103*428.899937*W 18,200.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,531.71 683,068.13 22*1314.589497*N 103*428.899937*W 18,200.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,531.71 683,068.13 22*1316.58949*N 103*428.899957*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,531.71 683,068.13 22*1316.58949*N 103*428.899957*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,531.80 83,065.87 32*1316.58949*N 103*428.899957*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.05 0.00 444,531.80 833,065.87 32*1316.58949*N 103*428.90047*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.05 0.00 444,531.80 833,065.82 32*1318.68395*N 103*428.90047*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.73 1,579.14 0.00 444,531.80 833,065.82 32*1318.68395*N 103*428.90047*W 18,500.00 90.00 359.67 9,055.00 5,481.00 8,227.36 8,337.16 1,579.34 0.00 444,531.86 833,065.82 32*1318.68305*N 103*428.90047*W 18,500.00 90.00 359.67 9,055.00 5,481.00 9,027.36 9,337.16 1,575.20 0.00 445,531.66 83,066.82 32*1318.68305*N 103*428.90047*W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,027.36 9,337.16 1,575.00 0.00 445,531.66 83,066.81 32*1322.50095*N 103*428.9005*N 19,400.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.16 1,575.00 0.00 445,531.66 83,066.81 32*1322.50095*N 103*428.9005*N 19,400.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.16 1,575.00 0.00 445,531.66 83,066.81 32*1322.50095*N 103*428.9005*N 19,400.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.16 1,575.00 0.00 445,531.66 83,066.83 32*1322.50095*N 103*428.9005*N 103*		17,700.00		359.67 359.67	9,055.00	5,481.00	7,727.36 7,827.36	7,737.18 7,837.17	1,583.62	0.00	444,031.75 444 131 74	683,071.53	32°13'9.747165"N 32°13'10 736712"N	103°44'28.898577"W
18,100,00 90,00 359,67 9,055,00 5,481,00 8,127.36 8,137.17 1,580.76 0,00 444,531.72 683,086.25 22*131.705351*N 103*428.89947*W 18,200,00 90,00 359,67 9,055,00 5,481,00 8,227.36 8,237.17 1,580.76 0,00 444,531.71 683,086.81 22*131.689497*N 103*428.89957*W 18,200,00 90,00 359,67 9,055,00 5,481,00 8,227.36 8,337.17 1,580.19 0,00 444,531.71 683,086.11 32*131.683498*N 103*428.89957*W 18,500,00 90,00 359,67 9,055,00 5,481,00 8,227.36 8,327.36 1,579.05 0,00 444,531.80 683,065.39 22*131.685998*N 103*428.99047*W 18,500,00 90,00 359,67 9,055,00 5,481,00 8,227.36 8,537.16 1,579.05 0,00 444,531.80 683,066.97 32*131.653938*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,727.36 8,537.16 1,577.91 0,00 445,031.86 683,066.39 32*131.653938*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,727.36 8,737.16 1,577.91 0,00 445,031.86 683,066.39 32*131.653938*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,727.36 8,837.16 1,577.31 0,00 445,031.86 683,066.39 32*131.653938*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,273.86 8,371.61 1,577.31 0,00 445,031.86 683,066.39 32*131.653938*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,273.86 8,371.61 1,577.31 0,00 445,031.86 83,066.82 32*131.65428*N 103*428.99047*W 18,700,00 90,00 359,67 9,055,00 5,481,00 8,273.86 8,371.61 1,577.37 0,00 445,031.86 83,064.89 32*132.162172*N 103*428.99037*W 19,700,00 90,00 359,67 9,055,00 5,481,00 9,127.36 9,137.15 1,575.06 0,00 445,531.64 83,064.89 32*1322.05937*N 103*428.99037*W 19,700,00 90,00 359,67 9,055,00 5,481,00 9,273.86 9,371.51 1,575.06 0,00 445,531.64 83,064.89 32*1322.05937*N 103*428.99037*W 19,700,00 90,00 359,67 9,055,00 5,481.00 9,273.86 9,371.51 1,575.36 0,00 445,531.64 83,064.83 32*1322.56949*N 103*428.90037*W 19,700,00 90,00 359,67 9,055,00 5,481.00 9,273.86 9,371.51 1,575.36 0,00 445,531.64 83,064.83 32*1322.56949*N 103*428.90037*W 19,700,00 90,00 359,67 9,055,00 5,481.00 9,273.86 9,371.51 1,575.36 0,00 445,531.64 83,064.83 32*1322.56949*N 103*428.90037*W 19,700,00 90,00 359,67		17,900.00	90.00	359.67	9,055.00	5,481.00	7,927.36	7,937.17	1,582.48	0.00	444,231.73	683,070.39	32°13'11.726258"N	103°44'28.899037"W
18,200,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,237.17 1,580.76 0.00 444,531.71 683,086.88 22*13*16.864897*N 103*428.899272*W 18,400,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,337.17 1,580.19 0.00 444,631.71 683,086.11 22*13*15.8644497*N 103*428.9809272*W 18,600,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.62 0.00 444,731.70 683,067.54 22*13*16.865436*N 103*428.980187*W 18,600,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,537.16 1,579.82 0.00 444,831.88 683,066.39 32*13*18.653082*N 103*428.980187*W 18,800,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,371.6 1,577.34 0.00 445,513.66 683,064.13 22*13*18.64528*N 103*428.980187*W 18,800,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,337.16 1,577.34 0.00 445,513.66 683,064.83 22*13*18.64528*N 103*428.980187*W 18,900,00 90,00 359.67 9,055.00 5,481.00 8,227.36 8,337.16 1,577.34 0.00 445,513.66 683,064.83 22*13*18.64528*N 103*428.980187*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,027.36 9,337.16 1,576.20 0.00 445,513.66 683,064.13 22*132*2.6126*N*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,027.36 9,337.16 1,576.20 0.00 445,513.66 683,064.13 22*132*2.6126*N*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,027.36 9,337.15 1,575.06 0.00 445,513.66 683,064.13 22*132*2.630187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.06 0.00 445,513.66 683,064.83 22*132*2.630187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.06 0.00 445,513.66 683,064.83 22*132*2.560187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.06 0.00 445,513.66 683,064.83 22*132*25.560187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.36 0.00 445,513.66 683,064.83 22*132*25.560187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.36 0.00 445,513.66 683,064.83 22*13225.560187*N 103*428.980165*W 19,000,00 90,00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,575.36 0.00 445,513.66 683,064.83 2														
18,500.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,537.16 1,579.05 0.00 444,831.69 683,066.97 22"317 563536"N 103"4428.900417"M 18,600.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,537.16 1,577.91 0.00 444,931.68 683,068.92 32"1318.593029"N 103"4428.90047"M 18,600.00 90.00 359.67 9,055.00 5,481.00 8,727.36 8,737.16 1,577.91 0.00 445,031.68 683,068.92 32"1318.593029"N 103"4428.900376"W 18,900.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,837.16 1,577.31 0.00 445,131.68 683,068.92 32"1318.593029"N 103"4428.900376"W 18,900.00 90.00 359.67 9,055.00 5,481.00 8,027.38 8,937.16 1,576.77 0.00 445,131.68 683,068.92 32"1320.832747 N 103"4428.901357W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,027.38 9,037.16 1,576.27 0.00 445,313.68 683,064.89 32"132"132"132"132"132"132"132"132"132"1		18,200.00	90.00	359.67	9,055.00	5,481.00	8,227.36	8,237.17	1,580.76	0.00	444.531.71	683,068.68	32°13'14.694897"N	103°44'28.899727"W
18,500.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,537.16 1,579.05 0.00 444,831.69 683,066.97 22"317 563536"N 103"4428.900417"M 18,600.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,537.16 1,577.91 0.00 444,931.68 683,068.92 32"1318.593029"N 103"4428.90047"M 18,600.00 90.00 359.67 9,055.00 5,481.00 8,727.36 8,737.16 1,577.91 0.00 445,031.68 683,068.92 32"1318.593029"N 103"4428.900376"W 18,900.00 90.00 359.67 9,055.00 5,481.00 8,273.68 8,837.16 1,577.31 0.00 445,131.68 683,068.92 32"1318.593029"N 103"4428.900376"W 18,900.00 90.00 359.67 9,055.00 5,481.00 8,027.38 8,937.16 1,576.77 0.00 445,131.68 683,068.92 32"1320.832747 N 103"4428.901357W 19,000.00 90.00 359.67 9,055.00 5,481.00 9,027.38 9,037.16 1,576.27 0.00 445,313.68 683,064.89 32"132"132"132"132"132"132"132"132"132"1		18,400.00	90.00	359.67	9,055.00	5,481.00	8,427.36	8,437.16	1,579.62	0.00	444,631.71 444,731.70	683,067.54	32°13'16.673990"N	103°44'28.900187"W
18,700,00 90,00 359.67 9,055,00 5,481.00 8,227.36 8,737.16 1,577.91 0,00 445,031.68 633,065.22 22*1319,642628*N 103*4428.900376*W 18,800,00 90,00 359.67 9,055,00 5,481.00 8,227.36 8,337.16 1,577.34 0,00 445,131.6* 633,065.22 22*1320,8232*H*1 03*4428.90136*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,027.36 9,371.6 1,576.77 0,00 445,231.66 63,064.68 32*132*1,621720*N 103*4428.90136*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,127.36 9,137.15 1,575.63 0,00 445,331.68 633,064.13 32*1322.61126*N 103*4428.90156*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,127.36 9,137.15 1,575.63 0,00 445,331.68 633,064.13 32*1322.61126*N 103*4428.90156*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,227.36 9,371.5 1,575.06 0,00 445,331.68 633,064.13 32*1322.61126*N 103*4428.90156*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,227.36 9,371.5 1,574.49 0,00 445,531.64 633,062.97 32*1324.59035*N 103*4428.90126*W 19,000,00 90,00 359.67 9,055,00 5,481.00 9,227.36 9,337.15 1,574.49 0,00 445,531.64 633,062.97 32*1324.59035*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,371.5 1,573.32 0,00 445,531.68 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.32 0,00 445,631.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.32 0,00 445,631.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.35 0,00 445,631.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.35 0,00 445,631.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.35 0,00 445,831.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,437.15 1,573.35 0,00 445,831.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,427.36 9,437.15 1,573.35 0,00 445,831.62 633,061.83 32*1325.59049*N 103*4428.9026*W 19,000,00 359.67 9,055,00 5,481.00 9,427.36 9,4		18,500.00	90.00	359.67	9,055.00	5,481.00	8,527.36	8,537.16	1,579.05	0.00	444,831.69	683,066.97	32°13'17.663536"N	103°44'28.900417"W
18,800,00 90,00 359,67 9,055,00 5,481,00 8,27.36 8,387.16 1,577.34 0,00 445,131,67 683,065,25 22*1320.82174*N 103*4428.901106*W 19,000,00 90,00 359,67 9,055,00 5,481,00 9,027.36 9,037.16 1,576.20 0,00 445,231,66 683,064.81 32*1322.8217210.103*4428.901165*W 19,100,00 90,00 359,67 9,055,00 5,481,00 9,027.36 9,037.16 1,576.20 0,00 445,431.66 683,064.11 32*1322.811266*N 103*4428.901565*W 19,200,00 90,00 359,67 9,055,00 5,481,00 9,227.36 9,137.15 1,575.36 0,00 445,431.66 683,064.11 32*1322.811266*N 103*4428.901575*W 19,200,00 90,00 359,67 9,055,00 5,481,00 9,227.36 9,337.15 1,575.06 0,00 445,531.64 683,062.97 32*1323.690127*N 103*4428.90126*W 19,200,00 90,00 359,67 9,055,00 5,481,00 9,227.36 9,337.15 1,574.49 0,00 445,531.64 683,062.97 32*1323.690127*N 103*4428.90224*W 19,400,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,337.15 1,574.39 0,00 445,531.64 683,062.97 32*1323.590137*N 103*4428.90248*W 19,400,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,337.15 1,573.32 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,537.15 1,573.32 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,537.15 1,573.32 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,537.15 1,573.35 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,537.15 1,573.35 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,427.36 9,437.15 1,573.35 0,00 445,531.68 683,061.83 32*1325.569449*N 103*4428.90248*W 19,500,00 9,00 9,00 9,00 9,00 9,00 9,00 9					9,055.00	5,481.00 5,481.00	8,627.36 8,727.36		1,578.48		444,931.68 445,031.68		32°13'18.653082"N 32°13'19.642628"N	103°44'28.900646"W 103°44'28.900876"W
19,000,00 90,00 39,9 67 9,055,00 5,481,00 9,127.36 9,377.66 1,576.20 0.00 445,331.66 683,064.11 32*1322.811266*N 103*4428.901565*W 19,100,00 90,00 39,6 7 9,055,00 5,481,00 9,127.36 9,137.15 1,575.36 0.00 445,531.66 683,063.45 32*1322.600127*N 103*4428.901575*W 19,200,00 90,00 39,6 7 9,055,00 5,481,00 9,227.36 9,327.15 1,575.06 0.00 445,531.64 683,062.97 32*1324.590357*N 103*4428.902624*W 19,400,00 90,00 39,6 7 9,055,00 5,481,00 9,227.36 9,337.15 1,574.49 0.00 445,531.68 683,062.49 32*1325.590397*N 103*4428.902624*W 19,400,00 90,00 39,6 7 9,055,00 5,481,00 9,227.36 9,337.15 1,574.39 0.00 445,531.68 683,062.49 32*1325.590397*N 103*4428.902624*W 19,400,00 90,00 39,6 7 9,055,00 5,481,00 9,427.36 9,437.15 1,573.32 0.00 445,531.68 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,055,00 5,481,00 9,427.36 9,437.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,055,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,055,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,505,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,505,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,505,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 90,00 39,6 7 9,505,00 5,481,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 9,427.36 9,537.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 9,427.36 9,427.36 9,437.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 9,427.36 9,437.15 1,573.35 0.00 445,531.62 683,061.83 32*1325.569449*N 103*4428.902485*W 19,500,00 9,427.36 9,437.15 1,573.36 0.00 445,531		18,800.00	90.00	359.67	9,055.00	5,481.00	8,827.36	8,837.16	1,577.34	0.00	445,131.67	683,065.25	32°13'20.632174"N	103°44'28.901106"W
19,100.00 90.00 359.67 9,055.00 5,481.00 9,273.68 9,137.15 1,575.63 0.00 445,431.65 683,062.54 32*1322.600812*N 103*428.901795*W 19,200.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,237.15 1,575.63 0.00 445,531.63 683,062.94 32*1324.500367*N 103*428.9012795*W 19,300.00 90.00 359.67 9,055.00 5,481.00 9,327.36 9,337.15 1,574.49 0.00 445,631.83 683,062.40 32*1325.579903*N 103*428.902254*W 19,400.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,337.15 1,573.32 0.00 445,731.63 683,061.83 32*1325.559903*N 103*428.902254*W 19,500.00 90.00 359.67 9,055.00 5,481.00 9,527.36 9,537.15 1,573.32 0.00 445,831.62 683,061.83 32*1325.559949*N 103*428.902254*W 19,500.00 90.00 359.67 9,055.00 5,481.00 9,527.36 9,537.15 1,573.35 0.00 445,831.62 683,061.83 32*1325.559949*N 103*428.902254*W 19,500.00 9,527.36 9,537.15 1,573.35 0.00 445,831.62 683,061.83 32*1325.559949*N 103*428.902485*W		19,000.00	90.00	359.67	9,055.00	5,481.00	9,027.36	9,037.16	1,576.20	0.00	445,331.66	683,064.11	32°13'22.611266"N	103°44'28.901565"W
19,300.00 90.00 359.67 9,055.00 5,481.00 9,327.36 9,337.15 1,574.49 0.00 445,631.63 683,062.40 32*13725.579903*N 103*4428,902254*W 19,400.00 90.00 359.67 9,055.00 5,481.00 9,227.36 9,537.15 1,573.25 0.00 445,631.63 683,061.83 32*1325.559449*N 103*4428,902485*W 19,500.00 90.00 359.67 9,055.00 5,481.00 9,527.36 9,537.15 1,573.35 0.00 445,831.62 683,061.83 32*1325.559949*N 103*4428,902485*W		19,100.00	90.00	359.67	9,055.00	5,481.00	9,127.36	9,137.15	1,575.63	0.00	445,431.65	683,063.54	32°13'23.600812"N	103°44'28.901795"W
19,400,00 90,00 359,67 9,055,00 5,481,00 9,27.36 9,437.15 1,573.32 0,00 445,731.63 683,061.83 32*1325-569449*N 103*428.902483*W 19,500,00 90,00 359,67 9,055,00 5,481,00 9,527.36 9,537.15 1,573.35 0,00 445,531.62 683,061.62 62*1327.558999*N 103*428.902483*W		19,300.00	90.00	359.67	9,055.00	5,481.00	9,327.36	9,337.15	1,574.49	0.00	445,631.63	683,062.40	32°13'25.579903"N	103°44'28.902254"W
						5,481.00	9,427.36	9,437.15	1,573.92	0.00	445,731.63		32°13'26.569449"N	103°44'28.902483"W
	SND 23 14 Fed Com 224H LTP/													

Survey Type:

Def Plan

Survey Error Model: ISCW SA0 3 sigma

Description Part MD From MD To EOU Freq Hole Size Casing Diameter Inclination Survey Tool Code Borehole / Survey

(ft) (ft) (ft) (in) (in) (deg)

B001Mb\_MWD+HRGM

SND 23 14 Fed Com 224H / SND 23 14 Fed Com 224H R1 mdv 16May23

1 0.000 20,608.019 1/100.000 default hole/casing size was used for A/C calculation because the wellbore size is not defined correctly

EOU Geometry:

End MD (ft)	Hole Size (in)	Casing Size (in)	Name
952.929	17.500	13.375	
4,569.186	12.250	9.625	
	8.750	7.000	
19,545.383	6.125		

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
COUNTY:
CHEVRON USA INCORPORATED
SND 14 23 FED COM 224H
966'/S & 2181'/E
25'/N & 550'/E
Section 23, T.24 S., R.31 E., NMP
Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	© Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency	☐ EchoMeter	☐ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	□ СОМ	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	✓ Break Testing	□ Offline	☐ Casing
Variance		Cementing	Clearance

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### B. CASING

## **Primary Casing Design:**

1. The 13-3/8 inch surface casing shall be set at approximately 900 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 16 inch in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator is approved to use contingency cementing for the Intermediate and Production section. Operator shall notify the BLM before proceeding with contingency operation.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the 7 inch intermediate casing is:
  - Cement should tie-back at least 200 feet into previous casing string.
     Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
     Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- 4. The minimum required fill of cement behind the 5 X 4-1/2 inch production liner is:
  - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

#### D. SPECIAL REQUIREMENT (S)

## (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3170.

• If in the event break testing is not utilized, then a full BOPE test would be conducted.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County
     EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
     BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
  - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

## B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500

feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

#### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 11/7/2023



## **Training**

MCBU Drilling and Completions  $H_2S$  training requirements are intended to define the minimum level of training required for employees, contractors and visitors to enter or perform work at MCBU Drilling and Completions locations that have known concentrations of  $H_2S$ .

#### **Awareness Level**

Employees and visitors to MCBU Drilling and Completions locations that have known concentrations of H<sub>2</sub>S, who are not required to perform work in H<sub>2</sub>S areas, will be provided with an awareness level of H<sub>2</sub>S training prior to entering any H<sub>2</sub>S areas. At a minimum, awareness level training will include:

- 1. Physical and chemical properties of H<sub>2</sub>S
- 2. Health hazards of H<sub>2</sub>S
- 3. Personal protective equipment
- 4. Information regarding potential sources of H<sub>2</sub>S
- 5. Alarms and emergency evacuation procedures

Awareness level training will be developed and conducted by personnel who are qualified either by specific training, educational experience and/or work-related background.

## Advanced Level H<sub>2</sub>S Training

Employees and contractors required to work in areas that may contain H<sub>2</sub>S will be provided with Advanced Level H<sub>2</sub>S training prior to initial assignment. In addition to the Awareness Level requirements, Advanced Level H<sub>2</sub>S training will include:

- 1. H<sub>2</sub>S safe work practice procedures;
- 2. Emergency contingency plan procedures;
- 3. Methods to detect the presence or release of H<sub>2</sub>S (e.g., alarms, monitoring equipment), including hands-on training with direct reading and personal monitoring H<sub>2</sub>S equipment.
- 4. Basic overview of respiratory protective equipment suitable for use in H<sub>2</sub>S environments. Note: Employees who work at sites that participate in the Chevron Respirator User program will require separate respirator training as required by the MCBU Respiratory Protection Program;
- 5. Basic overview of emergency rescue techniques, first aid, CPR and medical evaluation procedures. Employees who may be required to perform "standby" duties are required to receive additional first aid and CPR training, which is not covered in the Advanced Level H<sub>2</sub>S training;
- 6. Proficiency examination covering all course material.

Advanced H<sub>2</sub>S training courses will be instructed by personnel who have successfully completed an appropriate H<sub>2</sub>S train-the-trainer development course (ANSI/ASSE Z390.1-2006) or who possess significant past experience through educational or work-related background.



## H<sub>2</sub>S Training Certification

All employees and visitors will be issued an  $H_2S$  training certification card (or certificate) upon successful completion of the appropriate  $H_2S$  training course. Personnel working in an  $H_2S$  environment will carry a current  $H_2S$  training certification card as proof of having received the proper training on their person at all times.

## **Briefing Area**

A minimum of two briefing areas will be established in locations that at least one area will be upwind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated upwind briefing areas for instructions.

## H<sub>2</sub>S Equipment

## **Respiratory Protection**

- a) Six 30 minute SCBAs 2 at each briefing area and 2 in the Safety Trailer.
- b) Eight 5 minute EBAs 5 in the dog house at the rig floor, 1 at the accumulator, 1 at the shale shakers and 1 at the mud pits.

## **Visual Warning System**

- a) One color code sign, displaying all possible conditions, will be placed at the entrance to the location with a flag displaying the current condition.
- b) Two windsocks will be on location, one on the dog house and one on the Drill Site Manager's Trailer.

## H<sub>2</sub>S Detection and Monitoring System

- a) H<sub>2</sub>S monitoring system (sensor head, warning light and siren) placed throughout rig.
  - Drilling Rig Locations: at a minimum, in the area of the Shale shaker, rig floor, and bell nipple.
  - Workover Rig Locations: at a minimum, in the area of the Cellar, rig floor and circulating tanks or shale shaker.



## **Well Control Equipment**

- a) Flare Line 150' from wellhead with igniter.
- b) Choke manifold with a remotely operated choke.
- c) Mud / gas separator

## **Mud Program**

In the event of drilling, completions, workover and well servicing operations involving a hydrogen sulfide concentration of 100 ppm or greater the following shall be considered:

- 1. Use of a degasser
- 2. Use of a zinc based mud treatment
- 3. Increasing mud weight

## **Public Safety - Emergency Assistance**

<u>Agency</u>	Telephone Number
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222

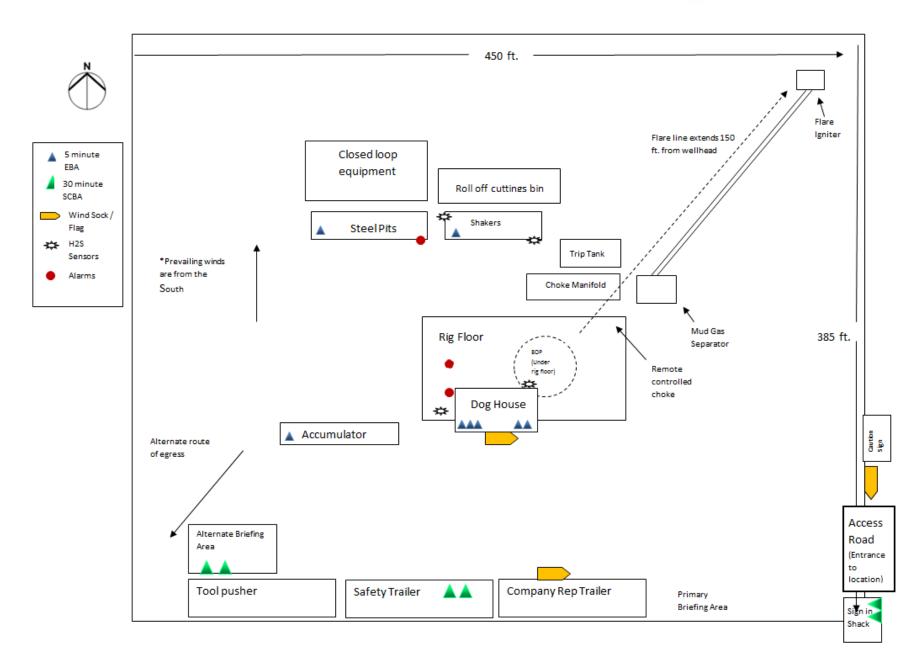


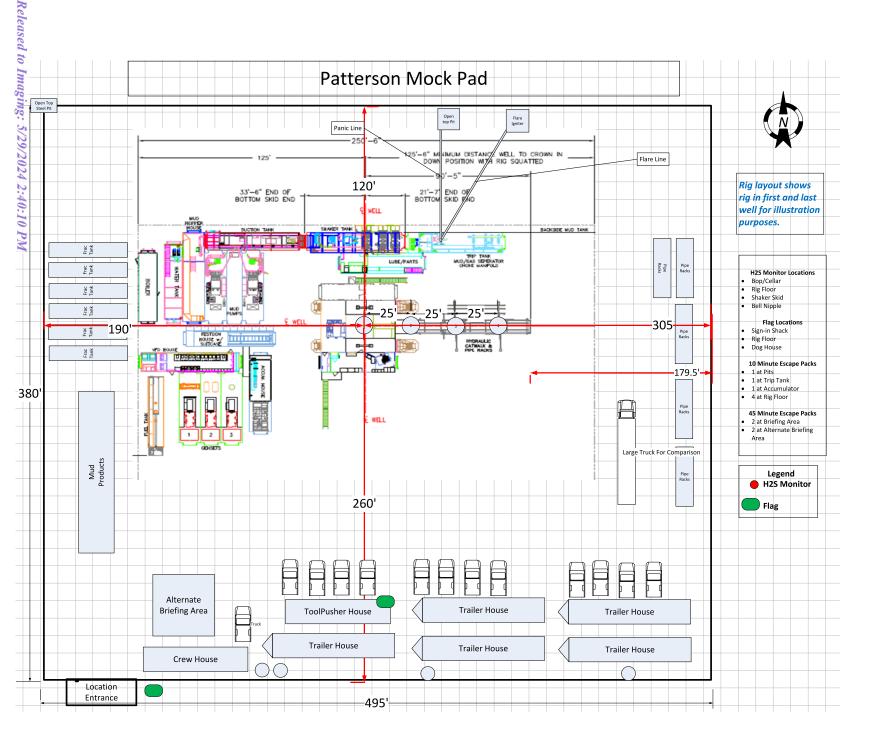
## **Chevron MCBU D&C Emergency Notifications**

Below are lists of contacts to be used in emergency situations.

	Name	Title	Office Number	Cell Phone
1.	TBD	Drilling Engineer		
2.	TBD	Superintendent		
5.	Steve Hassmann	Drilling Manager	(713) 372-4496	832-729-3236
6.	Kyle Eastman	Operations Manager	TBD	281-755-6554
7.	TBD	D&C HES		
8.	TBD	Completion Engineer		







Inten	t	As Dril	led												
API#	<u> </u>														
Ope	rator Nai	me:	1			Prop	erty N	ame:						Well Number	
W. L.	o (( p - ; - )	(vop)													
UL (	Off Point Section	Township	Range	Lot	Feet		From N	1/5	Feet		From	n E/W	County		
Latitu		Townsinp	Longitu			., 5					NAD				
Latit		Longitt								NAD					
Eirct -	Take Poir	s+ /ETD\													
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		From	n E/W	County		
Latitude Lo						ude							NAD		
Last Take Point (LTP)															
UL	Section	Township	Range	Lot	Feet	From	n N/S	Feet		From E	/W	Count	У		
Latitu	ude				Longitu							NAD			
Is this	s well the	defining w	vell for th	ne Hori	zontal Sı	pacing	Unit?	Г		7					
						P		<u>L</u>		_					
Is this	s well an	infill well?													
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.															
API#	<u> </u>														
Ope	rator Nai	me:	1			Prop	erty N	ame:						Well Number	
														V7.00/20/2010	

KZ 06/29/2018



APD ID: 10400092574

## U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name: SND 14 23 FED COM

## Drilling Plan Data Report

**Submission Date:** 06/02/2023

Operator Name: CHEVRON USA INCORPORATED

Well Number: 224H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13334075	RUSTLER	3549	668	668	SANDSTONE	NONE	N
13334095	SALADO	2545	1004	1007	ANHYDRITE, SALT	NONE	N
13334092	CASTILE	653	2896	2976	ANHYDRITE, SALT	NONE	N
13334094	LAMAR	-933	4482	4634	LIMESTONE	NONE	N
13334076	BELL CANYON	-970	4519	4673	LIMESTONE, SANDSTONE	NONE	N
13334078	CHERRY CANYON	-1876	5425	5620	SANDSTONE, SILTSTONE	NONE	N
13334079	BRUSHY CANYON	-3147	6696	6933	LIMESTONE, SANDSTONE	NONE	N
13334080	BONE SPRING LIME	-4798	8347	8590	SHALE, SILTSTONE	NATURAL GAS, OIL	N
13334090	UPPER AVALON SHALE	-4920	8469	8712	SHALE	NATURAL GAS, OIL	N
13334082	AVALON SAND	-5379	8928	9236	SHALE	NATURAL GAS, OIL	Y

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 9055

**Equipment:** Chevron will have a minimum of a 5,000 psi rig stack for drill out below surface casing. The stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed per hole section, unless approval from BLM is received otherwise. Flex choke hose will be used for all wells on the pad (see attached specs and variance). BOP test will be conducted by a third party.

#### Requesting Variance? YES

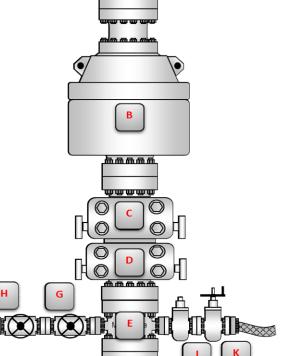
Variance request: "Chevron respectfully request to vary from the Onshore Order 2 where it states: "(A full BOP Test) shall be performed: when initially installed and whenever any seal subject to test pressure is broken." We propose to break test if able to finish the next hole section within 21 days of the previous full BOP test. No BOP components nor any break will ever surpass 21 days between testing. A break test will consist of a 250 psi low / 5,000 psi high for 10 min each test against the connection that was broken when skidding the rig. Upon the first nipple up of the pad a full BOP test will be performed. A full BOP test will be

## **BLOWOUT PREVENTER SCHEMATIC**

Operation: Intermediate & Production Drilling Operations

#### Minimum System operation pressure **BOP Stack Pressure Part** Size Description Rating 13-5/8" N/A Rotating Head/Bell nipple 13-5/8" 5,000 Annular В 13-5/8" C 10,000 Blind Ram 13-5/8" 10,000 D Pipe Ram Ē 13-5/8" 10,000 **Mud Cross** F 13-5/8" 10,000 Pipe Ram **Kill Line Pressure Part** Size Description Rating Inside Kill Line Valve (gate 2" G 10,000 valve) Outside Kill Line Valve 2" 10,000 (gate valve) 2" 10,000 Kill Line Check valve

5,000 psi



Flow Line

<u>Choke line</u>								
Part	Size	Pressure	Description					
Part		Rating						
J	3"	10,000	HCR (gate valve)					
K	3"	10,000	Manual HCR (gate valve)					
	<u>Wellhead</u>							
Part	Size	Pressure	Description					
Part	Size	Rating	Description					
ш	13-5/8"	5,000	FMC Multibowl wellhead					

BOP Installation Checklist: The following items must be verified and checked off prior to pressure testing BOP equipment

The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.

All valves on the kill line and choke line will be full opening and will allow straight flow through.

Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be install on all manual valves on the choke and kill line

A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.

Upper kelly cock valve with handle will be available on rig floor along with saved valve and subs to fit all drill string connections in use.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 341219

#### **CONDITIONS**

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	341219
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	5/29/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/29/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	5/29/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	5/29/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	5/29/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	5/29/2024