APR 08 2013

Form 3160-3 (March 2012) NMOCD ARTESIA

**OCD Artesia** 

FORM APPROVED Expires October 31, 2014

5. Lease Serial No.

**UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT, .....

SHL NM092167;BHL NM100332 6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERMIT	TO DRILL O	R REENTER				
1a. Type of Work: DRILL RE	ENTER		- Tyd	7. If Unit or CA Agree	ment, Name and No.	
			•		11.55	
1b. Type of Well: Oil Well Gas Well Other	<b>⊠</b> si	ingle Zone Multip	le Zone	8. Lease Name and We Da Vinci 7 Federal Co	/2/6	550
2. Name of Operator	<u> </u>	· · · · · · · · · · · · · · · · · · ·		9. API Well No.	JIII 2H - J@C	<u>/</u>
Cimarex Energy Co. of Colorado		a /626	,83>	30-015- 4/	259	
3a. Address	3b. Phone No.	(include area code)		10. Field and Pool, or I	Exploratory DC	•
600 N. Marienfeld St. Ste. 600 Midland Tx 79701	432-571-7	800		Wildcat Bone Spring	Draw; B.S	, ~~.
4. Location of Well (Report location clearly and in accordance	with any State re	quirements.*)		11. Sec., T. R. M. or Blk.	and Survey or Area 2	779
At Surface 330' FSL & 580' FEL						
At proposed prod, Zone 330' FNL & 400' FEL	Horizontal	Bone Spring test		7-25S-27E		
14. Distance in miles and direction from nearest town or post of	fice*			12. County or Parish	13. State	
Approximately 13 miles SSW of Loving, NM				Eddy	NM	
15 Distance from proposed*	16. No of acre	es in lease	17. Spaci	ng Unit dedicated to this we	11	
location to nearest property or lease line, ft.						
(Also to nearest drig, unit line if		67 878.57 acres				
any) 330' 18 Distance from proposed location*	NM100332 478.44 acres  19. Proposed Depth 20. BLM			160 4/BIA Bond No. on File		
to nearest well, drilling, completed,	15. Troposed	Бериг	20. DEM	Birt Bond Ivo. on The		
applied for, on this lease, ft.		!				
1117' to the #3H		7,902' TVD		NM2575; NMB0	000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxim	ate date work will start	*	23. Estimated duration		
3229' GR		05.01.13		35 da	avs	
3223 GK		Attachments	L	33 40		—
The following, completed in accordance with the requirements of C			be attached to	this form:		
•				ns unless covered by an exis	ting hand on file (see	
Well plat certified by a registered surveyor     A Drilling Plan		4. Bond to cover	•	ils unless covered by an exis	ang bond on the (see	
3. A Surface Use Plan (if the location is on National Forest System		5. Operator Cert		ormation and/or plans as ma	us he meanined but the	
SUPO shall be filed with the appropriate Forest Service Office)	). 	6. Such other sit authorized off	-	ormation and/or plans as ma		
25. Signature	Name (	Printed/Typed)	****		Date	_
faula Brunson	Paul	a Brunson			02.15.	.13
Title						_
Regulatory Analyst					·	
Approved By (Signature)  /S/ James A. Amos	Name (I	Printed/Typed)			Date	
Title ·	Office	······			400 0 00	
FIELD MANAGER		CARLS	BAD FIEL	OOFFICE	APR 3 20	13

conduct operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.S. 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)

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

\*(Instructions on page 2)

APPROVAL FOR TWO YEARS

SEE ATTACHED FOR CONDITIONS OF APPROVAL DISTRICT I

1025 N. French Dr., Hobbs, NM 86240

DISTRICT II

1301 W. Grand, Avenue, Artesia, NM 86210

DISTRICT III

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

Form C-102 Revised October 15, 2009

Submit one copy to appropriate District Office

# OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

DISTRICT IV 1220 S. St. Francis Dr., Santa-Fe, NM 87505

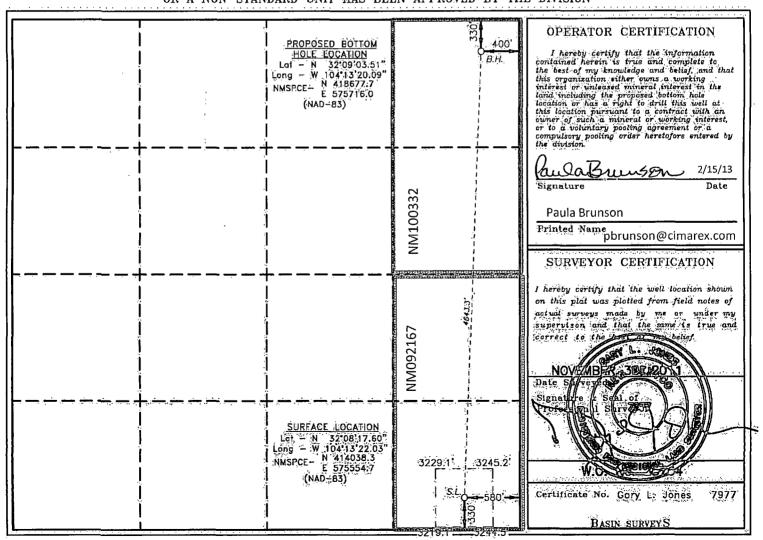
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

Number 4	1259	9	Pool Code	Coti	on wood Deif Wildeat; Bo	one Spring (O	)			
8			DA VII					Well Number 2H		
OGRID No.  162683  CIMAREX ENERGY CO. OF COLORADO										
				Surface Loc	ation					
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
7	25 S	27 E		330	SOUTH	580	EAST	EDDY		
		Bottom	Hole Lo	cation If Diffe	erent From Sur	face				
Section .	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
7	25 S	27 E		330	NORTH	400	EAST	EDDY		
Joint o	r Infill Co	nsolidation	Code Or	der No.	-					
	Section 7	Section Township 7 25 S Section Township 7 25 S	Section Township Range 7 25 S 27 E  Bottom Section Township Range 7 25 S 27 E	Section Township Range Lot Idn 7 25 S 27 E  Bottom Hole Lot Section Township Range Lot Idn 7 25 S 27 E	Property Nan DA VINCI "7" FED Operator Nan CIMAREX ENERGY CO.  Surface Loc Section Township Range Lot Idn Feet from the 7 25 S 27 E 330  Bottom Hole Location If Difference Township Range Lot Idn Feet from the 7 25 S 27 E 330	Property Name DA VINCI "7" FEDERAL COM  Operator Name CIMAREX ENERGY CO. OF COLORADO Surface Location  Section Township Range Lot Idn Feet from the North/South line 7 25 S 27 E 330 SOUTH  Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line 7 25 S 27 E 330 NORTH	Property Name DA VINCI "7" FEDERAL COM  Operator Name CIMAREX ENERGY CO. OF COLORADO  Surface Location  Section Township Range Lot Idn Feet from the North/South line Feet from the South Hole Location If Different From Surface  Section Township Range Lot Idn Feet from the North/South line Feet from the South Hole Location If Different From Surface  Section Township Range Lot Idn Feet from the North/South line Feet from the North/So	Property Name DA VINCI "7" FEDERAL COM CIMAREX ENERGY CO. OF COLORADO Surface Location  Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Bottom Hole Location If Different From Surface  Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line Township Range Lot Idn Feet from the North/South line Feet from the East/West line		

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



Operator Certification Statement

Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado

UL P - Sec 7-25S-27E

Eddy County, NM

Operator's Representative
Cimarex Energy Co. of Colorado
600 N. Marienfeld St., Ste. 600
Midland, TX 79701

Office Phone: (432) 571-7800

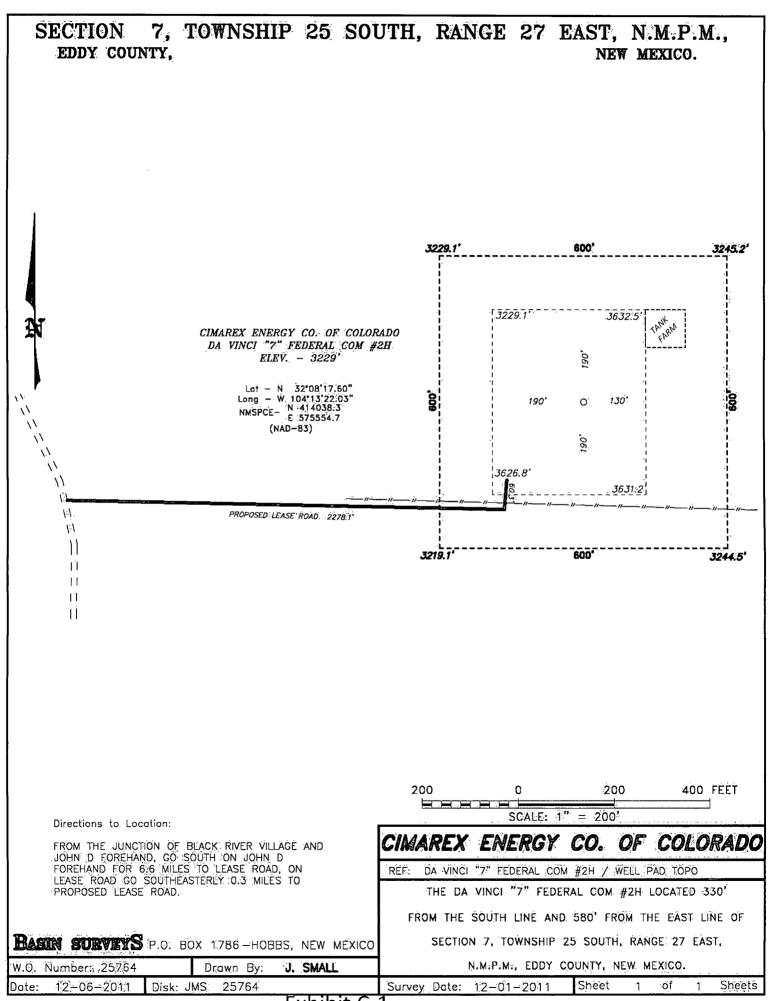
**Executed this** 

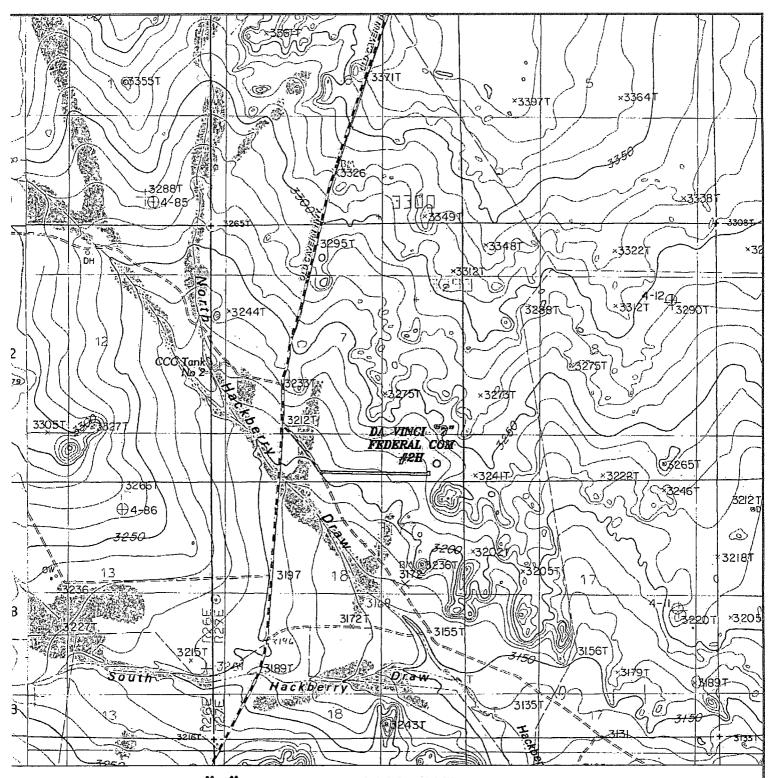
**CERTIFICATION:** I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: PaulaBrunson
Paula Brunson
TITLE: Regulatory Analyst
ADDRESS: 600 N. Marienfeld St., Ste. 600 Midland, TX 79701
TELEPHONE: 432-571-7848
EMAIL: pbrunson@cimarex.com
Field Representative: Same as above

February

15th day of





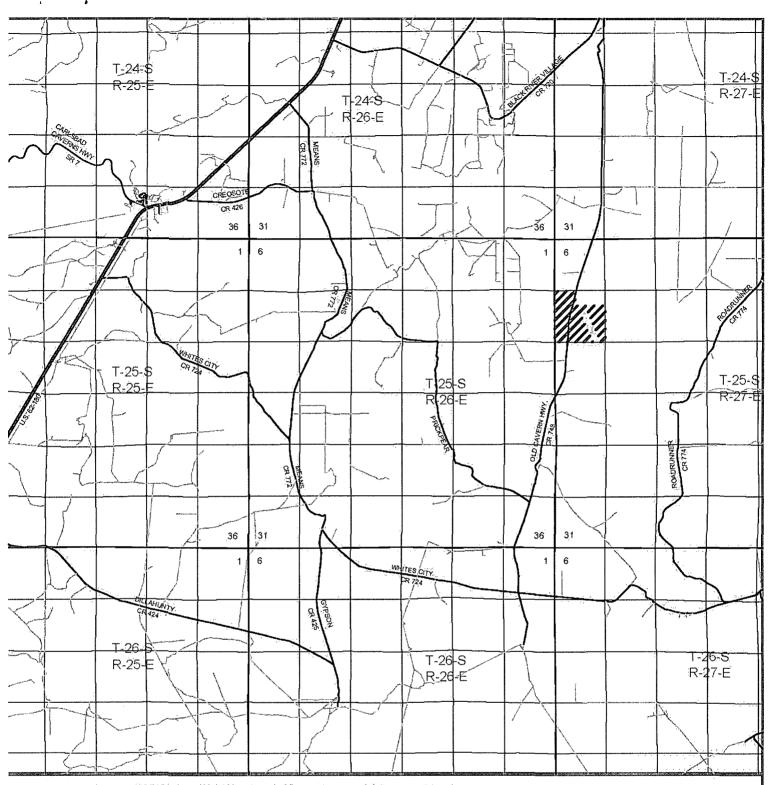
DA VINCI "7" FEDERAL COM #2H Located 330' FSL and 580' FEL Section 7, Township 25 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 86241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

	W.O. Number: JMS 25764	ſ
A84 - 7 0 7 040-40	Survey Date: 12-01-2011	
The second second	Scale: 1" = 2000'	•
	Date: 12-06-2011	100 mg/m

CIMAREX ENERGY CO. OF COLORADO



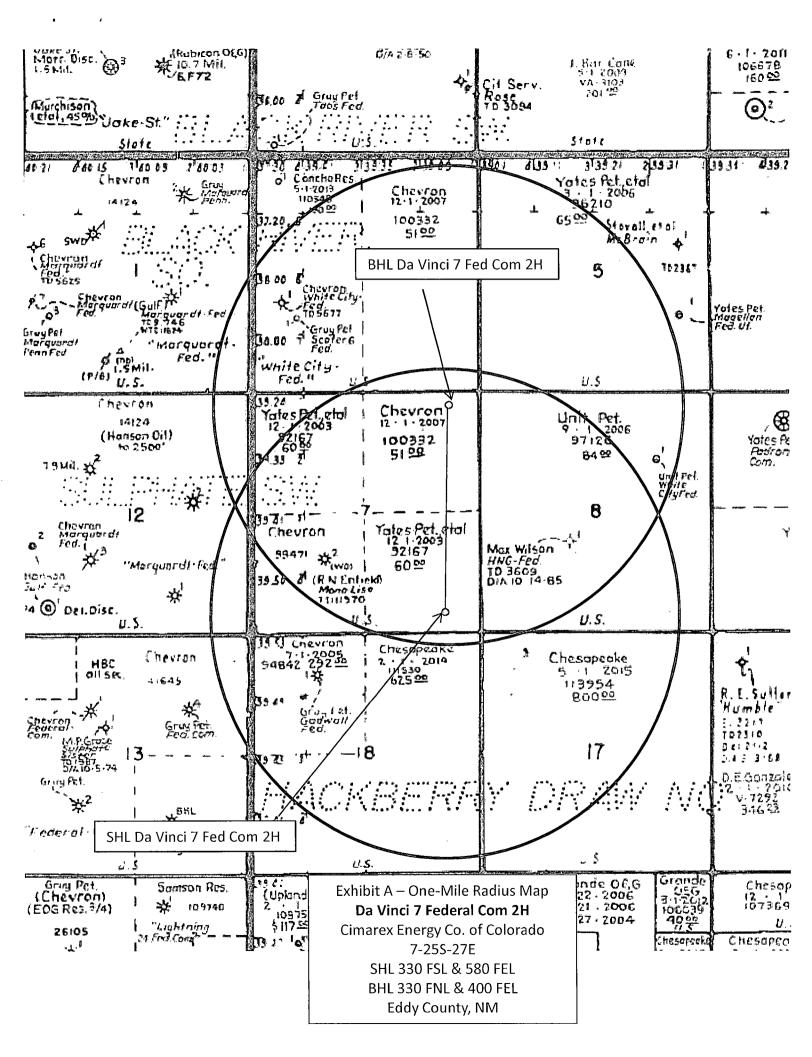
DA VINCI "7" FEDERAL COM #2H Located 330' FSL and 580' FEL Section 7, Township 25 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

1	W.O. Number: JMS 25764	
	Survey Date: 12-01-2011	
000000000000000000000000000000000000000	Scale: 1" = 2 Miles	
	Date: 12-06-2011	

CIMAREX ENERGY CO. OF COLORADO



Application to Drill

Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado UL P - Sec 7-25S-27E Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1 Location:

SHL

330' FSL & 580' FEL

BHL

3HL

330' FNL & 400' FEL

2 Elevation above sea level:

3229' GR

3 Geologic name of surface formation:

Quaternary Alluvium Deposits

4 Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

5 Proposed drilling depth:

12,422' MD

7,902' TVD

6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Ground Water (per OSE)	20	NA
Rustler	Spotty, NA	NA
Top Salt	1232.56	NA
Base Salt	1848.56	NA
Delaware	2048.05	Hydrocarbons
Cherry Canyon	2985.69	NA .
Brushy Canyon	4021.45	NA
Brushy Canyon Lower	5237.17	NA
Bone Spring	5534.87	NA
Bone Spring "A" Shale	5661.23	Hydrocarbons
Bone Spring "C" Shale	5935.97	NA
1st Bone Spring Ss	6487.83	NA
2nd Bone Spring Ss	7023.95	NA
2nd BS Ss Horz Target	7300.54	Hydrocarbons
. 3rd BS Limestone	7371.38	NA

# 7 Possible mineral bearing formation:

Shown above

# 8 Casing Program:

Casing Depth From (ft)	Casing Setting Depth(ft) MD	Casing Setting Depth(ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	rface	Conditon	SI Surface Pressure & BHP	Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (Ibs)	Tension SF (1.6)
L					<del></del>			·i						
0'	450'	450'	17 1/2	13 3/8	48	H-40	ST&C	New	203	8.4	3.76	8.5	21600	14.9
	2020'					Inter	mediat	e						
0'	2028	2028'	12 1/4	9 5/8	36	J-55	LT&C	New	913	9	2.13	3.9	73010	7.7
						Prod	duction							
0'	7616'	7616'	8 3/4	5 1/2	17	P-110	LT&C	New	1817	8.4	2.25	5.9	134334	3.3
7616'	12422'	7902'	8 3/4	5 1/2	17	P-110	BT&C	New	3556	8.4	2.17	3.0	4862	112.3

# **Casing Design Criteria and Casing Loading Assumptions:**

# **Surface, Intermediate and Production Casing:**

Tension: A 1.6 design factor without effects of buoyancy. Collapse: A 1.125 design factor with full internal evacuation.

Burst: A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

# **Drilling Plan**

## Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado UL P - Sec 7-25S-27E Eddy County, NM

# 9 Cementing Program:

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	120	1.75	13.5	208	Class C + Bentonite + Calcium Chloride + LCM
Tail	200	1.34	14.8	261	Class C + LCM

TOC: 0' 50% Excess Centralizers per Onshore Order 2.III.B.1f

Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	460	1.88	12.9	861	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	130	1.34	14.8	、168	Class C + retarder + LCM

TOC: 0' 80% Excess

Production	on Sacks Yield (cuft/sx) Weight (ppg) Cubic F		Cubic Feet	Cement Blend	
Ī					35:65 (poz/H) + salt + Sodium Metasilcate + Bentonite + Fluid
Lead	720	2.4	11.9	1728	Loss + Dispersant + LCM + Retarder
					50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant +
Tail	1355	1.24	14.5	1681	LCM + Retarder

Cement volumes will be adjusted depending on hole size.

TOC: 1528' 25% Excess

Centralizers every 3rd joint through the curve or legal location hardline to provide adequate cement coverage every 100' unless hole conditions require greater spacing between centralizers.

Sela

## 10 Pressure Control Equipment:

Exhibit "E-1". A 13%" 5000 PSI working pressure BOP, tested to 3000 psi on the surface casing and 5000 psi on the intermediate, consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be installed and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high on the surface casing and 250 psi low and 5000 psi high on the intermediate. Hydril will be tested to 250 psi low and 2500 psi high on the surface and intermediate casings.

Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached (please see Exhibit F, F-1, F-2, F-3). The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

# Application to Drill

### Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado UL P - Sec 7-25S-27E

Eddy County, NM

11 Proposed Mud Circulating System:

	Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to	450'	8.4	28	NC	FW Spud Mud
450'	to	<del>202</del> 8 2020	9	30-32	NÇ	Brine water
-2028 201	w' to	12422'	8.4	30-32	NC	FW/Cut Brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

# 12 Proposed Drilling Plan

Pilot Hole TD:

No Pilot Hole

KOP:

7,616'

EOC: 8065'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drillling lateral through the curve to TD. Run prod casing & cement.

# 13 Testing, Logging and Coring Program:

A. Mud logging program:

2 man unit from 2028' to TD

- B. Electric logging program: CNL/LDT/CAL/GR, DLL/CAL/GR -- Inter. Csg to TD See COA
- C. No DSTs or cores are planned at this time.
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

## 14 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H<sub>2</sub>S Safety package on all wells, attached is an "H<sub>2</sub>S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP

3556 psi

**Estimated BHT** 

150°

15 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take:

35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

# 16 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from TD over possible pay intervals.

Bone Spring

pay will be perforated and stimulated.

The proposed well will be tested and potentialed as

Oil



€ 1

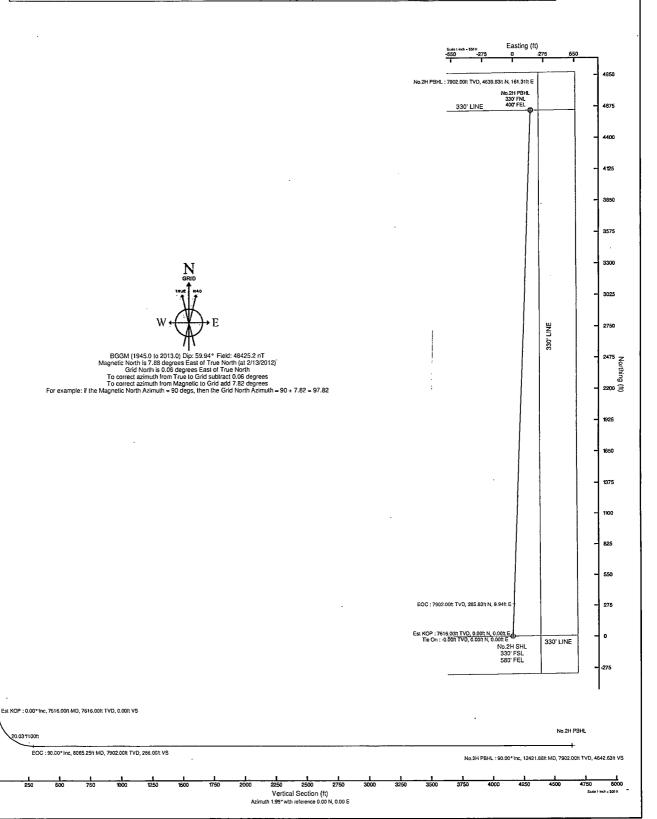
True Vertical Depth

# Cimarex Energy Co. of Colorado Location: Eddy County, NM Field: (Du Vanci) Sec. 7, 725S, R27E Facility: Da Vanci 7 Fed Com No.2H Wellbore: No.2H PWB



	Well Profile Data												
Design Comment	MD (ft)	Inc (°)	Az (9	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)					
Tie On	0.00	0.000	1.991	0.00	0.00	0.00	0.00	0.00					
Est KOP	7616.00	0.000	1.991	7616.00	0.00	0.00	0.00	0.00					
EOC	8065.25	90.000	1.991	7902.00	285.83	9.94	20.03	286.00					
No.2H PBHL	12421.88	90.000	1.991	7902.00	4639.83	161.31	0.00	4642.63					

Plot reference wellpath is Prelim_1	
True vertical depths are referenced to Rig on No.2H SHL (RT)	Grid System: NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No.2H SHL (RT)	North Reference: Grid north
Rig on No.2H SHL (RT) to Mean Sea Level: 3229 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: No.2H SHL): -3229 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: gentbry on 2/13/2012





# Planned Wellpath Report Prelim\_1 Page 1 of 5



ROOMER	ENCEMERATHOD ENHINGATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No.2H SHL
Area	Eddy County, NM	Well	No.2H
Field	(Da Vanci) Sec. 7, T25S, R27E	Wellbore	No.2H PWB
	Da Vanci 7 Fed Com No.2H		

<u>स्थित्र अस्तर अस्तर ।</u>	INPORMATION		
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.99991	Report Generated	2/13/2012 at 1:45:30 PM
Convergence at slot			WA Midland/No.2H_PWB.xml

WIELLIPATE FILOCEATUON							
	Local coo	rdinates	Grid co	ordinates	Geographic coordinates		
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	
Facility Reference Pt		i niedos mitroferes Hilbro miedos Necestido	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	
Field Reference Pt			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	

DILYCHITYSPIPER	$M_{ m c}$		
Calculation method	Minimum curvature	Rig on No.2H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.2H SHL (RT) to Mean Sea Level	3229.00ft
Vertical Reference Pt	Rig on No.2H SHL (RT)	Rig on No.2H SHL (RT) to Mud Line at Slot (No.2H SHL)	0.00ft
MD Reference Pt	Rig on No.2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	1.99°



# Planned Wellpath Report Prelim\_1 Page 2 of 5



रिक्रमधार	IENCE WELLPATHETED ENHIPTICATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No.2H SHL
Area	Eddy County, NM	Well	No.2H
Field	(Da Vanci) Sec. 7, T25S, R27E	Wellbore	No.2H PWB
Facility	Da Vanci 7 Fed Com No.2H		

MD	Inclination		TVD	Vert Sect			Grid East	Grid North	o <b>n</b> Latitude	Longitude		Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]	
0.00	0.000	1.991	0.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W		Tie On
100.00†	0.000	1.991	100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
200.00†	0.000	1.991	200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
300.00†	0.000	1.991	300.00	0.00	0.00		575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
400.00†	0.000	. 1.991	400.C0	0.00	0.00	0.00	575554.70	414038.30		104°13'22.026"W	0.00	
500.00†	0.000	1.991	500.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
600.00†	0.000	1.991	600.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
700.00†	0.000	1.991	700.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
800.00†	0.000	1.991	800.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
' 900.00t	0.000	1.991	900.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	, 0:00	
1000.00†	0.000	1.991	1000.00	0.00	0.00	0.00	57,5554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1100.00†	0.000	1.991	1100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1197.00†	0.000	1.991	1197.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Top Salt
1200.00†	0.000	1.991	1200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1300.00†	0.000	1.991	1300.00	0.00	0.00	0:00:	. 575554.70.	414038:30	32°08'17.598"N	104°13'22.026"W	0.00	
1400.00†	0.000	1.991	1400.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1500.00†	0.000	1.991	1500.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1600.00†	0.000		1600.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1700.00†	0.000			0.00	0.00		575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1798.00†	0.000		1,798.00	0.00	0.00		575554:70	414038.30	32°08'17.598"N	104°13'22'.026"W	.0.00	Base Salti
1800.00†	0.000	The second section in the second	1800.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1900.00†	0.000	1.991	1900.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
1997.00†	0.000	1.991	1997.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Delaware
2000.00†	0.000		2000.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2100.00†	0.000		2100.00	0.00	0.00	0.00		414038.30	32°08'17.598"N	104°13'22:026"W′	0.00	and the second second
2200.00†	0.000	1.991	2200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2300.00†	0.000		2300.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2400.00†	0.000	1.991	2400.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2500.00†	0.000	1.991	2500.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2600.00†	0.000	1 991	2600.00	0.00	*0.00	0.00	575554:70	414038:30	32°08'17.598"N	- 104°13'22.026"W	0.00	
2700.00†	0.000	1.991	2700.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2800.00†	0.000	1.991	2800.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
2900.00†	0.000	1.991	حبطماها مإهامات كماعتماسلية	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	ali talahan dalah dalah talah talah dalah
2947.00†	0.000	1.991	2947.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Cherry Canyon
3000.00†	0.000	1.991	3000.00	0.00	.0.00.	0.00	575554:70	414038:30	-32°08¦17.598;'N	104°13'22.026,"W	0.00	C. A. C. C.
3100.00†	0.000	1.991	3100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3200.00†	0.000	1.991	3200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3300.00†	0.000	Andreas designate de la constante de la consta	3300.00	0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3400.00†	0.000	1.991		0.00	0.00		575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
	0.000		3500.00		0.00			:414038:30	32°08'17.598"N			
3600.00†	0.000	1		0.00	110000000000000000000000000000000000000	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3700.00†	0.000		3700.00	0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3800.00†	0.000			0.00		0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
3900.00†	0.000			0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026''W	0.00	
3987:00†							: 575554:70			104°13'22.026"W		Brushy Canyon



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शिक्षमुख्य	ENCE WELLPATHITIDENHIMICATRON		
Operator	Cimarex Energy Co. of Colorado	Slot	No.2H SHL
Area	Eddy County, NM	Well	No.2H
Field	(Da Vanci) Sec. 7, T25S, R27E	Wellbore	No.2H PWB
	Da Vanci 7 Fed Com No.2H		

[ft] 4000.00† 4100.00† 4200.00†	Inclination [°] 0.000	Azimuth	TVD	Vert Sect	Month	T	C 11.					
4100.00† 4200.00†	0.000		[ft]	[ft]	[ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4200.00†	0.000	1.991	4000.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
	0.000	1.991	4100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
	0.000	1.991	4200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4300.00†	0.000	1.991	4300.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4400.00†	0.000	1.991	4400.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4500.00†	0.000	1.991	4500.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4600.00†	0.000	1.991	4600.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4700.00†	0.000	1.991	4700.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4800.00†	0.000	1.991	4800.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
4900.00†	0.000	1.991	4900.00	0.00	0.004	0:00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5000.00†	0.000	1.991	5000.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5100.00†	0.000	1.991	5100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5193.00†	0.000	1.991	5193.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Brusy Canyon Lower
5200.00†	0.000	1.991	5200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5300:00†	0.000	1.991	5300.00	0.00	:0.00	0.00	575554:70	414038:30	32°08'17.598"N	. 104°13'22.026"W	0.00	CONTRACTOR CONTRACTOR
5400.00†	0.000	1.991	5400.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5479.00†	0.000	1.991	5479.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Bone Spring
5500.00†	0.000	1.991	5500.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5600.00†	0.000	1.991	5600.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5604.00†	0.000	. 1.991	5604:00	0:00	0.00	0.00	575554.70	414038:30	32°08'17.598"N;	104°13'22.026"W	0.00	Bone Spring "A" Shale
5700.00†	0.000	1.991	5700.00	0.00	}	0.00			32°08'17.598"N	104°13'22.026"W	0.00	
5800.00†	0.000	1.991	5800.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5900.00†	0.000	1.991	5900.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
5938.00†	0.000	1.991	5938.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	Bone Spring "C" Shale
6000.00†	0.000	1.99.1	6000:00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	. 104°13'22:026"W	0.00	
6100.00†	0.000	1.991	6100.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6200.00†	0.000	1.991	6200.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6300.00†	0.000	1.991	6300.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6400.00†	0.000	1.991	6400.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6439.00†	0.000	1.991	6439.00	0.00	0.00	0.00	575554.70	414038.30	:32°08'17.598"N	104°13!22:026"W	0.00	1st Bone Spring Ss
6500.00†	0.000	1.991	6500.00	0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6600.00†	0.000	1.991	6600.00	0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6700.00†	0.000	1.991	6700.00	0.00	0.00	0.00	575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6800.00†	0.000	wateriage, stance when the best	6800.00	0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
6900.00†	0.000		6900.00		,			414038:30		,104°13'22:026"W		
7000.00†	0.000	1.991		0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W	0.00	
7019.00†	0.000		7019.00	0.00			575554.70	414038.30	32°08'17.598"N	104°13'22.026"W		2nd Bone Spring Ss
7100.00†	0.000		7100.00	0.00						104°13'22.026"W	0.00	
7200.00†	0.000		7200.00	0.00					32°08'17.598"N	104°13'22.026"W	0.00	and the state of t
7300.00†			7300.00							,104°13'22'.026".W	0.00	
7400.00†	0.000		7400.00	0.00				414038.30		104°13'22.026"W	0.00	
7500.00†	0.000		7500.00	0.00				414038.30		104°13'22.026"W	0.00	
7600.00†	0.000		7600.00	0.00				414038.30		104°13'22.026"W	0.00	
7616.00	0.000		7616.00	0.00				414038.30		104°13'22.026"W	0.00	Est KOP
7700.00†	16.828	1.991	7698:80	12:25	12.24	0:43	575555.13	414050.54	32°08¦17.719"N	-104°13¦22`020"W	*20.03	And the second s



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रिकालक	REPORTED CONTROL OF THE PROPERTY OF THE PROPER								
Operator	Cimarex Energy Co. of Colorado	Slot	No.2H SHL						
Area	Eddy County, NM	Well	No.2H						
Field	(Da Vanci) Sec. 7, T25S, R27E	Wellbore	No.2H PWB						
Facility	Da Vanci 7 Fed Com No.2H		advalues necessaries and the first behavior of the first construction						

MD	WELLP	ATH DA	TA (1	40 stati	oņs) 📑	= inter	polate	d/extrap	olated sta	tion			
7757.731				3						Latitude		DLS	
7800.001 36.862   1991/787.57   57.18   57.14   1.99   57555.60   41409.44   \$2.0818.164*N   104*1372.002*W   20.03   7000.001 5.68585   1991/785.57   120.79   120.75   157559.21   41459.46   32.0818.164*N   104*1321.934*W   20.03   8060.007   76.920   129   7894.59   221.32   221.8   7.69   57556.239   414259.46   32.0819.787*N   104*1321.934*W   20.03   8060.007   800.000   1991/7902.00   320.75   320.66   11.14   57556.324   414259.46   32.0819.787*N   104*1321.934*W   20.03   8060.007   900.001   1991/7902.00   320.75   320.66   11.14   57556.324   41485.76   32.0827.79*N   104*1321.851*W   0.00   8200.007   900.00   1991/7902.00   520.75   520.44   18.09   57555.24   41485.76   32.0827.27*N   104*1321.851*W   0.00   8300.007   900.00   1991/7902.00   520.75   620.81   52.04   18.09   57555.27   41458.56   32.0823.73*N   104*1321.80*W   0.00   8400.007   900.00   1991/7902.00   520.75   620.81   52.04   52.04   52.05   52.04										32°08'17.939"N	104°13'22.011"W	20.03	Lwr 2nd Bone spring Ss
SMOOLOF  76.979  1.991   7894.59   221.32   221.18   7.69   57556.29   414559.46   32'08'19.7877N   104'13'21.93'4'W   2.03   88.63   58.83   59.48   57556464   41473'4'10   32'08'21.0477N   104'13'21.93'4'W   2.03   8200.00   90.000   1.991   7902.00   32.075   32.05   11.14   575563.84   414358.83   32'08'21.7570'N   104'13'21.83'2'W   0.00   3800.001   90.000   1.991   7902.00   52.05   52.04   18.05   57552.74   41455.66   32'08'21.759'N   104'13'21.83'2'W   0.00   3800.001   90.000   1.991   7902.00   52.05   52.04   18.05   57552.74   41455.66   32'08'22.748'N   104'13'21.89'W   0.00   3800.001   90.000   1.991   7902.00   62.075   52.04   18.05   57552.79   41455.66   32'08'22.748'N   104'13'21.670'W   0.00   3800.001   90.000   1.991   7902.00   62.075   52.04   81.05   57552.79   414555.66   32'08'22.748'N   104'13'21.670'W   0.00   3800.001   90.000   1.991   7902.00   82.075   82.026   28.52   575583.21   414558.69   32'08'22.748'N   104'13'21.63'W   0.00   3800.001   90.000   1.991   7902.00   120.75   120.00   39.00   58.00   59.00	7800.00†	36.862	1.991	7787.57	57.18	57.14						20.03	
\$865.25   90.000	7900.00†	56.895	1.991	7855.57	129.79	129.72	4.51	575559.21	414168.00	32°08'18.882"N	104°13'21.972"W	20.03	
800.007   90.000   1991   7902.00   320.75   320.56   11.14   575555.84   41458.85   32°0820.776"   104°13'21.892"W   0.00   8200.007   90.000   1991   7902.00   520.75   520.44   18.09   575576.26   41458.66   32°08'21.759"N   104°13'21.809"W   0.00   8400.007   90.000   1991   7902.00   520.75   520.44   18.09   575576.26   41458.66   32°08'22.748"N   104°13'21.607"W   0.00   8400.007   90.000   1991   7902.00   520.75   520.34   18.09   575576.26   41458.66   32°08'22.748"N   104°13'21.767"W   0.00   8500.007   90.000   1991   7902.00   520.75   520.26   28.52   575583.21   41458.48   32°08'22.746"N   104°13'21.637"W   0.00   8500.007   90.000   1991   7902.00   920.75   920.20   31.99   575586.09   414958.41   32°08'26.704"N   104°13'21.637"W   0.00   8500.007   90.000   1991   7902.00   120.75   120.01   33.64   575590.41   41558.83   32°08'27.602"N   104°13'21.637"W   0.00   8500.007   90.000   1991   7902.00   120.75   120.02   34.94   575590.63   41558.27   32°08'28.61"N   104°13'21.637"W   0.00   8500.007   90.000   1991   7902.00   120.75   120.02   42.41   575590.01   41558.80   32°08'29.670.7N   104°13'21.559"W   0.00   8500.007   90.000   1991   7902.00   130.75   1319.95   43.89   575500.88   41538.31   32°08'30.659"N   104°13'21.457"W   0.00   8500.007   90.000   1991   7902.00   120.75   1418.95   43.89   575500.88   41538.31   32°08'30.659"N   104°13'21.457"W   0.00   8500.007   90.000   1991   7902.00   120.75   1519.85   43.84   575505.80   41558.20   32°08'33.656"N   104°13'21.458"W   0.00   8500.007   90.000   1991   7902.00   120.75   1418.95   43.85   575600.88   41538.31   32°08'33.659"N   104°13'21.458"W   0.00   8500.007   90.000   1991   7902.00   120.75   1819.85   63.26   575600.88   41538.31   32°08'33.659"N   104°13'21.458"W   0.00   8500.007   90.000   1991   7902.00   120.75   1819.85   63.26   575600.88   41558.79   32°08'33.650"N   104°13'21.450"W   0.00   8500.007   90.000   1991   7902.00   120.75   1919.59   63.26   575600.88   416557.79   32°08'35.650"N   104°13'21.650"W	8000.00†	76.929	1.991	7894.59	221.32	221.18	7.69	575562.39	414259.46	32°08'19.787"N	104°13'21.934"W	20.03	
S200.001   90.000   1.991   7902.00   520.75   520.44   18.09   575572.79   414558.65   32°0821.759°N   104°1321.851°W   0.00	8065:25	90.000	1:991	7902:00	286.00	285.83	9:94	575564:64	414324.10	32°08'20.427#N	104°13'21'907"W	20:03	EOC A
\$300.00  90.000	8100.00†	90.000	1.991	7902.00	320.75	320.56	11.14	575565.84	414358.83	32°08'20.770"N	104°13'21.892"W	0.00	
\$400.00  90.000	8200.00†	90.000	1.991	7902.00	420.75	420.50	14.62	575569.32	414458.76	32°08'21.759"N	104°13'21.851"W	0.00	
\$600.00  90.000   1991   7002.00  720.75   770.32   25.04   757579.74   1475855   320824.7765.N   1041321.7265.W   0.00    8000.00   90.000   1991   7902.00   820.75   820.26   28.52   575883.21   147585.85   320825.715 \text{N }   1041321.684 \text{W }   0.00    8700.00   90.000   1991   7902.00   190.75   920.00   31.99   575586.69   414958.41   32°0825.715 \text{N }   1041321.684 \text{W }   0.00    8800.001   90.000   1.991   7902.00   120.75   120.00   8389.001   90.000   1.991   7902.00   120.75   120.00   8389.001   90.000   1.991   7902.00   120.75   120.00   8389.001   90.000   1.991   7902.00   120.75   120.00   83.84   575593.63   415158.27   32°0828.681 \text{N }   1041321.597 \text{W }   0.00    90.000   90.000   1.991   7902.00   1320.75   1319.89   43.89   575600.58   415358.13   32°0828.681 \text{N }   1041321.357 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1419.89   49.36   575600.58   415358.13   32°0828.681 \text{N }   1041321.357 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1419.89   49.36   575600.58   415358.13   32°0823.659 \text{N }   1041321.357 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1519.83   52.84   575607.53   415557.99   32°0832.637 \text{N }   1041321.335 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1519.83   52.84   575607.53   415557.99   32°0833.659 \text{N }   1041321.335 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1519.83   52.84   575607.53   415557.99   32°0833.659 \text{N }   1041321.351 \text{W }   0.00    90.000   90.000   1.991   7902.00   1520.75   1919.50   67.3   57661.00   415657.99   32°0833.659 \text{N }   1041321.351 \text{W }   0.00    90.000   90.000   1.991   7902.00   1920.75   2019.33   70.21   575621.43   415575.99   32°0833.659 \text{N }   1041321.351 \text{W }   0.00    90.000   90.000   1.991   7902.00   120.75   2019.33   70.21   575621.43   415575.99   32°0833.659 \text{N }   1041322.1585 \text{W }   0.00    100.000   90.000   1.991   7902.	8300.00†	90.000	1.991	7902.00	520.75	520.44	18.09	575572.79	414558.69	32°08'22.748"N	104°13'21.809"W	0.00	
8600.001         90.000         1.991/7902.00         820.75         \$20.26         28.52 (575883.21   414858.48   32°0827.6704"N   104°13′21.643°W   0.00           8700.001         90.000         1.991/7902.00   1020.75   1020.14   35.46   575590.16   415058.34   32°08′27.692°N   104°13′21.601°W   0.00           8800.001         90.000   1.991/7902.00   1120.75   1120.08   38.94   575593.63   415158.27   32°08′28.681°N   104°13′21.595°W   0.00           9000.001         90.000   1.991/7902.00   1220.75   1220.08   38.94   575593.63   415158.27   32°08′28.681°N   104°13′21.576°W   0.00           9100.001         90.000   1.991/7902.00   1220.75   1219.95   45.89   575600.58   415558.13   32°08′30.659°N   104°13′21.476°W   0.00           9200.001         90.000   1.991/7902.00   1220.75   1219.95   45.89   575600.58   415558.13   32°08′30.659°N   104°13′21.436°W   0.00           9300.001         90.000   1.991/7902.00   1220.75   1219.71   50.78   57560.58   415559.33   32°08′33.626°N   104°13′21.436°W   0.00           9400.001         90.000   1.991/7902.00   120.75   1519.71   59.78   57561.00   415657.93   32°08′33.626°N   104°13′21.351°W   0.00           9500.001         90.000   1.991/7902.00   120.75   1919.75   50.28   57561.00   415657.93   32°08′33.626°N   104°13′21.351°W   0.00           9700.001         90.000   1.991/7902.00   120.75   1919.75   50.26   57561.00   415657.93   32°08′33.626°N   104°13′21.351°W   0.00           9700.001         90.000   1.991/7902.00   120.75   1919.75   50.26   57561.00   415657.23   32°08′33.559°N   104°13′21.2750°W   0.00	8400.00†			7902.00			21.57	575576.26	414658.62	32°08'23.737"N	104°13'21.767"W	0.00	
\$70,000   \$90,000   \$1,991   \$790,200   \$20,75   \$20,20   \$31,99   \$75586.69   \$414958.41   \$32°0826.704"N   \$104'1321.643"W   \$0.00   \$880,000   \$90,000   \$1.991   \$790,200   \$120.75   \$120.08   \$38.49   \$575593.63   \$4150853.4   \$32°0827.692"N   \$104'1321.5159"W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$120.08   \$3.84   \$575593.63   \$4150853.7   \$32°0828.681"N   \$104'1321.5159W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$120.08   \$3.84   \$575593.63   \$415185.7   \$32°0828.681"N   \$104'1321.5159W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$19.95   \$45.89   \$75600.58   \$415358.13   \$32°0829.670"N   \$104'1321.476"W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$19.95   \$45.89   \$75600.58   \$415358.13   \$32°0833.659"N   \$104'1321.476"W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$19.95   \$45.89   \$75600.58   \$415358.13   \$32°0833.659"N   \$104'1321.435"W   \$0.00   \$90,000   \$1.991   \$790,200   \$120.75   \$19.95   \$6.73   \$75607.53   \$415557.99   \$32°0833.650"N   \$104'1321.393"W   \$0.00   \$900.000   \$1.991   \$790,200   \$160.75   \$16.977   \$5.63   \$57561.95   \$415857.79   \$32°0833.650"N   \$104'1321.391"W   \$0.00   \$900.000   \$1.991   \$790,200   \$120.75   \$19.95   \$6.73   \$7561.795   \$415857.79   \$32°0833.650"N   \$104'1321.351"W   \$0.00   \$900.000   \$1.991   \$790,200   \$120.075   \$19.95   \$6.73   \$7561.43   \$415957.72   \$32°0835.604"N   \$104'1321.255"W   \$0.00   \$990.000   \$1.991   \$790.200   \$20.075   \$19.95   \$6.73   \$7561.43   \$415957.72   \$32°0835.604"N   \$104'1321.227"W   \$0.00   \$990.000   \$1.991   \$790.200   \$20.075   \$219.35   \$70.21   \$7568.83   \$41657.58   \$32°08.35.559"N   \$104'1321.227"W   \$0.00   \$1000.000   \$1.991   \$790.200   \$20.075   \$219.35   \$70.21   \$7568.83   \$41657.58   \$32°08.35.559"N   \$104'1321.019"W   \$0.00   \$1000.000   \$1.991   \$790.200   \$20.075   \$219.35   \$7568.359   \$16657.35   \$32°08.35.559"N   \$104'1321.019"W   \$0.00   \$1000.000   \$1.991   \$790.200   \$20.075   \$318.83   \$16.55   \$5568.928   \$416557.58   \$32°08.345.559"N   \$104'1320.659"W   \$0.00   \$10	8500.00†	90.000	1.991	7902.00	,720:75	ু720.32	25.04	575579.74	414758!55	32°08!24.726"N	104°13'21.726"W	0.00	
880.001   90.000   1.991   7902.00   1020.75   1020.14   35.46   575590.16   41508.84   32°08'27.692"N   104*13'21.601"W   0.00	8600.00†	90.000	1.991	7902.00	820.75	820.26	28.52	575583.21	414858.48	32°08'25.715"N	104°13'21.684"W	0.00	
\$90.00t   \$90.000   \$1.991   7902.00   \$120.75   \$1120.08   \$38.04   \$75593.63   \$41518.27   \$296828.681"N   \$10491321.559"W   \$0.00   \$90.000   \$1.991   7902.00   \$120.75   \$119.95   \$4.889   \$75560.08   \$415358.01   \$29828.681"N   \$10491321.5187W   \$0.00   \$9200.00t   \$90.000   \$1.991   7902.00   \$120.75   \$119.95   \$4.889   \$75560.58   \$415358.01   \$29838.659"N   \$10491321.435"W   \$0.00   \$9200.00t   \$90.000   \$1.991   7902.00   \$120.75   \$119.83   \$2.84   \$75560.58   \$415355.06   \$20831.648"N   \$10491321.435"W   \$0.00   \$9300.00t   \$90.000   \$1.991   7902.00   \$1520.75   \$1519.83   \$52.84   \$75607.53   \$415557.99   \$276832.637"N   \$10491321.393"W   \$0.00   \$9400.00t   \$90.000   \$1.991   7902.00   \$120.75   \$1719.71   \$5.91   \$75611.00   \$415657.95   \$3296832.637"N   \$10491321.315"W   \$0.00   \$9500.00t   \$90.000   \$1.991   7902.00   \$120.75   \$1719.71   \$5.91   \$75614348   \$415757.86   \$270834.615"N   \$10491321.2351"W   \$0.00   \$9500.00t   \$90.000   \$1.991   7902.00   \$1820.75   \$1819.65   \$63.26   \$7561438   \$415757.86   \$2708345.637"N   \$10491321.237"W   \$0.00   \$9800.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.53   \$70.21   \$75624.90   \$416057.65   \$270835.604"N   \$10491321.185"W   \$0.00   \$9900.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.47   \$73.68   \$75624.30   \$416557.58   \$29835.504"N   \$10491321.185"W   \$0.00   \$9900.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.43   \$77.16   \$75624.90   \$416057.65   \$270837.581"N   \$10491321.185"W   \$0.00   \$1000.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.43   \$7516358.80   \$416557.43   \$270837.581"N   \$10491321.105"W   \$0.00   \$1000.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.43   \$75664.93   \$416557.43   \$270837.581"N   \$10491321.005"W   \$0.00   \$1000.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.43   \$8758   \$75664.27   \$416557.43   \$270834.535"N   \$10491321.005"W   \$0.00   \$1000.00t   \$90.000   \$1.991   7902.00   \$220.75   \$219.53   \$8758   \$75664.25   \$4166557.43   \$270834.535"N   \$10491320.955"W   \$0.00   \$1000.00t   \$90.000	realist in the delication in the latest and	Contract to the second section and	متحصيص والمتحدث	تحتمنت كنتمان تصعف تحتموه	المتستحلطات فالمتحدث							0.00	
900.001   90.000   1991   7902.00   1220.75   1220.02   42.41   875597.11   415258.70   32°0829.670°N   104°13'21.1518°W   0.00   91000   1991   7902.00   1320.75   1319.95   45.89   575600.05   415358.13   32°08'30.659°N   104°13'21.437°W   0.00   9200.001   99.000   1991   7902.00   1520.75   1519.83   32.84   57560.06   415458.06   32°08'32.637°N   104°13'21.335°W   0.00   9400.001   99.000   1991   7902.00   1520.75   1619.77   55.31   57560.06   415557.99   32°08'32.637°N   104°13'21.335°W   0.00   9500.001   90.000   1991   7902.00   1520.75   1619.77   55.31   57561.428   415557.99   32°08'32.637°N   104°13'21.351°W   0.00   9500.001   90.000   1.991   7902.00   1520.75   1819.65   63.26   57561.95   415857.79   32°08'32.637°N   104°13'21.351°W   0.00   9500.001   90.000   1.991   7902.00   1820.75   1819.65   63.26   57561.95   415857.79   32°08'35.604°N   104°13'21.268°W   0.00   9700.001   90.000   1.991   7902.00   1920.75   1919.59   66.73   575621.43   415957.72   32°08'35.604°N   104°13'21.268°W   0.00   9800.001   90.000   1.991   7902.00   2020.75   2019.53   70.21   575624.81   416557.83   32°08'35.594°N   104°13'21.185°W   0.00   990.000   1.991   7902.00   2220.75   2019.53   70.21   575631.85   416557.83   32°08'35.594°N   104°13'21.185°W   0.00   1000.001   90.000   1.991   7902.00   2220.75   2319.35   806.3   575633.85   416557.86   32°08'37.581°N   104°13'21.145°W   0.00   1000.001   90.000   1.991   7902.00   2520.75   2319.35   806.3   57563.85   416557.30   32°08'45.56°N   104°13'21.145°W   0.00   1000.001   90.000   1.991   7902.00   2520.75   2519.23   87.58   575642.27   416557.30   32°08'45.56°N   104°13'21.015°W   0.00   10400.001   90.000   1.991   7902.00   2520.75   2519.53   87.58   575642.27   416557.30   32°08'45.56°N   104°13'20.958'W   0.00   10400.001   90.000   1.991   7902.00   2520.75   2519.53   87.58   575642.27   416557.30   32°08'45.48°N   104°13'20.958'W   0.00   10400.001   90.000   1.991   7902.00   320.75   3018.93   301.48   575663.12   41756.88   32°08'45.												0.00	
9100.00↑ 90.000			Lamento de Caracione	Annomation and annual	being maker on an arrange	arrivation and the second							
9200.00↑ 90.000 1.991 7902.00 1420.75 1419.89 49.36 575604.06 415458.06 32°08°31.648"N 104°13°21.435"W 0.00   9300.00↑ 90.000 1.991 7902.00 1520.75 1519.83 52.84 575607.53 415557.99 32°08°32.637"N 104°13°21.393"W 0.00   9400.00↑ 90.000 1.991 7902.00 1620.75 1619.77 56.31 575611.04 1415657.93 32°08°33.668"N 104°13°21.31"W 0.00   9500.00↑ 90.000 1.991 7902.00 1820.75 1819.65 63.26 575617.95 415857.79 32°08°35.504"N 104°13°21.310"W 0.00   9700.00↑ 90.000 1.991 7902.00 1820.75 1819.65 63.26 575617.95 415857.79 32°08°35.504"N 104°13°21.268"W 0.00   9700.00↑ 90.000 1.991 7902.00 1200.75 1919.59 66.73 575621.43 415957.72 32°08°35.504"N 104°13°21.285"W 0.00   9700.00↑ 90.000 1.991 7902.00 1200.75 1219.51 77.68 575621.83 416157.65 32°08°37.581"N 104°13°21.185"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.47 73.68 575628.38 416157.85 32°08°37.581"N 104°13°21.185"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.47 73.68 575628.38 416157.85 32°08°37.581"N 104°13°21.185"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 73.68 575628.38 416157.85 32°08°37.581"N 104°13°21.145"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 73.68 575638.80 416557.31 32°08°41.537"N 104°13°21.145"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 73.68 575638.80 416557.31 32°08°43.537"N 104°13°21.145"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 73.68 575638.80 416557.31 32°08°43.537"N 104°13°21.019"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 74.68 575638.80 416557.31 32°08°43.537"N 104°13°21.019"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 74.68 575638.80 416557.31 32°08°43.558"N 104°13°21.019"W 0.00   9700.00↑ 90.000 1.991 7902.00 1220.75 1219.41 74.68 75645.55 416657.23 32°08°43.548"N 104°13°20.69"W 0.00   9700.00↑ 9700.00 1.991 7902.00 1320.75 1318.81 14190.5556665.91 41756.81 32°08°43.548"N 104°13°20.548"W 0.00   9700.00↑ 9700.00 1.991 7902.00 320.75 318.89 1818.59 182.55563.40 41756.65 32°08°43.648"N 104°13°20.568"W 0.00   9700.00↑ 9700.00 1.991 7902.00 320.75 318.89 183.59 183.59 1856.	the same of the second second	finalis with his return with	A STATE OF THE PARTY OF THE PAR	The contract of the contract o	to a fee of payment the law to be a feel	لَّمُنَ ﴾ وهالموهم و "المائية , ماكوباليه , النوح إ						0.00	Mara Mara
9300.00† 90.000	9100.00†	90.000	1.991	7902.00	1320.75	1319.95	45.89	575600.58	415358.13	32°08'30.659"N	104°13'21.476"W	0.00	
9400.007   90.000   1.991   7902.00   1620.75   1619.77   56.31   575611.00   415657.93   32°08'33.66"N   104°13'21.351"W   0.00	9200.00†						49.36	575604.06	415458.06	32°08'31.648"N	104°13'21.435"W	0.00	
1950   1900   1991   1902   1902   1902   1902   1902   1903	9300.00†	90.000	1.991	7902.00	1520.75	1519.83						0.00	·
9600.00    90.000	9400.00†			7902.00	1620.75	1619.77	56.31	575611.00	415657.93	32°08'33.626"N	104°13'21.351"W		
9700.00    90.000   1.991   7902.00   1920.75   1919.59   66.73   575621.43   415957.72   32°08'36.593"N   104°13'21.227"W   0.00   9800.00    90.000   1.991   7902.00   2120.75   2019.53   70.21   575624.90   416057.65   32°08'37.581"N   104°13'21.185"W   0.00   9900.00    990.000   1.991   7902.00   2120.75   2219.41   77.16   575631.85   416357.58   32°08'35.597"N   104°13'21.183"W   0.00   1000.00    90.000   1.991   7902.00   2320.75   2319.35   80.63   575638.85   416357.58   32°08'30.559"N   104°13'21.130"W   0.00   10200.00    90.000   1.991   7902.00   2320.75   2319.35   80.63   575635.32   416357.34   32°08'40.548"N   104°13'21.060"W   0.00   10200.00    90.000   1.991   7902.00   2520.75   2519.23   87.58   575645.75   416557.30   32°08'41.537"N   104°13'21.019"W   0.00   10300.00    90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416557.30   32°08'43.515"N   104°13'20.935"W   0.00   10500.001   90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416557.33   32°08'43.515"N   104°13'20.935"W   0.00   10500.001   90.000   1.991   7902.00   2720.75   2719313   89433   575649.72   416557.76   32°08'45.643"N   104°13'20.935"W   0.00   10600.00  90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   10600.00  90.000   1.991   7902.00   3220.75   2918.99   10.48   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   10600.00  90.000   1.991   7902.00   3220.75   318.87   104.95   575656.69   417056.59   32°08'45.493"N   104°13'20.850"W   0.00   10600.00  90.000   1.991   7902.00   3220.75   318.87   104.95   575656.65   417056.65   32°08'45.493"N   104°13'20.660"W   0.00   11000.00  90.000   1.991   7902.00   3220.75   318.87   104.95   575656.65   417256.81   32°08'45.493"N   104°13'20.660"W   0.00   11000.00  90.000   1.991   7902.00   3220.75   318.87   104.95   575666.59   417256.64   32°08'55.445"N   104°13'20.660"W   0.00   11000.00  90.000   1.991   7902.00   320.75   318.87   104°13'20	-9500.00†	<u>. , 9</u> 0:000	1.991	7902.00	1720.75	1719.71	59.78	575614.48	415757.86	32°08'34:615"N	104°13'21.310 'W <sub>3</sub>	0.00	
9800.00† 90.000 1.991 7902.00 200.75 2019.53 70.21 575624.90 416057.65 32°08'37.581"N 104°13'21.185"W 0.00   9900.00† 90.000 1.991 7902.00 2120.75 2119.47 73.68 575628.38 416157.58 32°08'38.550"N 104°13'21.143"W 0.00   10000.00† 90.000 1.991 7902.00 2220.75 2219.41 773.66 575631.85 416257.51 32°08'38.559"N 104°13'21.143"W 0.00   10100.00† 90.000 1.991 7902.00 2420.75 2419.29 84.11 575638.80 416457.37 32°08'40.548"N 104°13'21.060"W 0.00   10200.00† 90.000 1.991 7902.00 2520.75 2519.23 87.58 575642.27 416557.30 32°08'40.548"N 104°13'21.09"W 0.00   10400.00† 90.000 1.991 7902.00 2620.75 2619.17 91.05 575648.75 416657.23 32°08'43.535"N 104°13'20.977"W 0.00   10500.00† 90.000 1.991 7902.00 2720.75 271934 594:53 575648.75 416657.23 32°08'43.515"N 104°13'20.935"W 0.00   10500.00† 90.000 1.991 7902.00 2820.75 2819.59 88.00 575652.69 416857.09 32°08'43.540"N 104°13'20.8943W 0.00   10500.00† 90.000 1.991 7902.00 2920.75 2918.99 10.48 575659.64 417056.95 32°08'44.740"N 104°13'20.852"W 0.00   10700.00† 90.000 1.991 7902.00 3020.75 3018.93 104.95 575696.64 417056.95 32°08'44.740"N 104°13'20.750"W 0.00   10800.00† 90.000 1.991 7902.00 3220.75 3118.87 108.43 575663.12 417156.88 32°08'44.81"N 104°13'20.750"W 0.00   10900.00† 90.000 1.991 7902.00 3220.75 318.87 118.85 108.43 575663.12 417156.88 32°08'44.81"N 104°13'20.750"W 0.00   10000.00† 90.000 1.991 7902.00 3220.75 318.87 118.85 575670.07 417356.74 32°08'50.437"N 104°13'20.644"W 0.00   11000.00† 90.000 1.991 7902.00 3220.75 3318.75 115.38 575670.07 417356.74 32°08'50.437"N 104°13'20.644"W 0.00   11000.00† 90.000 1.991 7902.00 3520.75 3318.57 125.80 575680.49 417556.53 32°08'53.404"N 104°13'20.644"W 0.00   11000.00† 90.000 1.991 7902.00 3520.75 3318.57 125.80 575680.49 417556.53 32°08'53.404"N 104°13'20.544"W 0.00   11000.00† 90.000 1.991 7902.00 3520.75 3318.57 125.80 575680.49 417556.33 32°08'53.404"N 104°13'20.544"W 0.00   11000.00† 90.000 1.991 7902.00 320.75 3318.57 155.80 575680.49 417556.33 32°08'53.404"N 104°13'20.354"W 0.00   11000.00† 90.000 1.991 7902.00 320.75 33	9600.00†	90.000					63.26	575617.95	415857.79	32°08'35.604"N	104°13'21.268"W	0.00	
9900.00    99.000   1.991   7902.00   2120.75   2119.47   73.68   575628.38   416157.58   32°08'38.570''N   104°13'21.143''W   0.00   1.9000.00    99.000   1.991   7902.00   2220.75   2219.41   773.68   575631.85   416257.51   32°08'39.559''N   104°13'21.1025W   0.00   0.00   1.900.00    90.000   1.991   7902.00   2220.75   2219.41   773.68   575635.32   416357.44   32°08'40.548''N   104°13'21.060''W   0.00   0.00   1.991   7902.00   2220.75   2219.23   87.58   575635.32   416357.30   32°08'40.548''N   104°13'21.097''W   0.00   1.900.00   1.991   7902.00   2520.75   2519.23   87.58   575642.27   416557.30   32°08'42.526''N   104°13'20.935''W   0.00   1.900.00   1.991   7902.00   2520.75   2719.34   594533   575642.27   416557.30   32°08'43.515''N   104°13'20.935''W   0.00   1.900.00   1.991   7902.00   2820.75   2719.34   594533   575649.22   416557.36   32°08'43.504''N   104°13'20.935''W   0.00   1.900.00   1.991   7902.00   2820.75   2918.99   101.48   575656.17   416957.02   32°08'44.504''N   104°13'20.852''W   0.00   1.900.00   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'44.504''N   104°13'20.505''W   0.00   1.900.00   1.991   7902.00   3220.75   3018.93   104.95   575659.64   417056.95   32°08'47.470''N   104°13'20.769''W   0.00   1.900.00   90.000   1.991   7902.00   3220.75   3318.87   104.95   575659.64   417056.95   32°08'47.470''N   104°13'20.769''W   0.00   1.900.00   90.000   1.991   7902.00   3220.75   3318.87   115.38   575670.07   417556.61   32°08'47.470''N   104°13'20.660''W   0.00   11000.00   90.000   1.991   7902.00   3220.75   3318.85   115.38   575670.07   417556.60   32°08'53.49''N   104°13'20.600''W   0.00   11000.00   90.000   1.991   7902.00   3220.75   3318.85   115.38   575670.70   417556.60   32°08'53.49''N   104°13'20.561''W   0.00   11000.00   90.000   1.991   7902.00   3220.75   3318.85   115.38   575670.70   417556.60   32°08'53.49''N   104°13'20.561''W   0.00   11000.00   90.000   1.991   7902.00   3220.75   3318.85   155.80   575670.54   4175	9700.00†	90.000	1.991	7902.00	1920.75	1919.59	66.73	575621.43	415957.72	32°08'36.593"N	104°13'21.227"W	0.00	
10000.001		J										0.00	
10100.00†   90.000   1.991   7902.00   2320.75   2319.35   80.63   575635.32   416357.44   32°08'40.548"N   104°13'21.060"W   0.00   1.000.00†   90.000   1.991   7902.00   2420.75   2419.29   84.11   575638.80   416457.37   32°08'41.537"N   104°13'21.019"W   0.00   1.000.00†   90.000   1.991   7902.00   2520.75   2519.23   87.58   575642.27   416557.30   32°08'42.526"N   104°13'20.977"W   0.00   1.000.00†   90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416657.23   32°08'43.515"N   104°13'20.935"W   0.00   1.000.00†   90.000   1.991   7902.00   2270.75   2719343   59453   575649.22   416757.16   32°08'43.504"N   104°13'20.935"W   0.00   1.000.00†   90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   1.000.00†   90.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'45.493"N   104°13'20.810"W   0.00   1.000.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   5756566.17   416957.02   32°08'47.470"N   104°13'20.769"W   0.00   1.000.00†   90.000   1.991   7902.00   3320.75   3318.87   108.43   575666.59   417256.81   32°08'49.448"N   104°13'20.727"W   0.00   1.000.00†   90.000   1.991   7902.00   3320.75   3318.75   115.38   575670.07   417356.74   32°08'50.437"N   104°13'20.666"W   0.00   11100.00†   90.000   1.991   7902.00   3220.75   3318.75   115.38   575670.07   417356.74   32°08'50.437"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'51.426"N   104°13'20.560"W   0.00   11300.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417556.63   32°08'53.404"N   104°13'20.361"W   0.00   11500.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575680.49   417556.40   32°08'55.415"N   104°13'20.351"W   0.00   11500.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575680.49   417756.64   32°08'55.381"N   104°13'20.346"W   0.00   11500.00†   90.000   1.991   7902.00	in receiptain after in failur a aigheanna	armetures income	printers a collection at a fact with	e anterio imbergiore a facilitare e que	harmon arter artefair i de la sult a	and the same which the father what							
10200.00†   90.000   1.991   7902.00   2420.75   2419.29   241.1   575638.80   416457.37   32°08'41.537"N   104°13'21.019"W   0.00   10300.00†   90.000   1.991   7902.00   2520.75   2519.23   87.58   575642.27   416557.30   32°08'42.526"N   104°13'20.977"W   0.00   10400.00†   90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416657.23   32°08'43.515"N   104°13'20.935"W   0.00   10500.00†   90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'44.504"N   104°13'20.852"W   0.00   10700.00†   90.000   1.991   7902.00   2920.75   2918.99   98.00   575652.69   416857.09   32°08'44.504"N   104°13'20.852"W   0.00   10700.00†   90.000   1.991   7902.00   3020.75   2918.99   101.48   575656.17   416957.02   32°08'44.504"N   104°13'20.852"W   0.00   10700.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'44.481"N   104°13'20.769"W   0.00   10900.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'44.59"N   104°13'20.769"W   0.00   10000.00†   90.000   1.991   7902.00   3220.75   3118.87   108.43   575663.12   417156.88   32°08'48.459"N   104°13'20.666"W   0.00   11000.00†   90.000   1.991   7902.00   3220.75   3118.87   115.38   575670.07   417356.74   32°08'50.437"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3220.75   318.86   112.32   575670.07   417356.74   32°08'50.437"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417556.63   32°08'53.404"N   104°13'20.602"W   0.00   11500.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417556.67   32°08'53.404"N   104°13'20.519"W   0.00   11500.00†   90.000   1.991   7902.00   3820.75   318.85   125.80   575680.49   417556.67   32°08'53.404"N   104°13'20.436"W   0.00   11500.00†   90.000   1.991   7902.00   3820.75   318.85   132.75   575680.94   417556.67   32°08'55.331"N   104°13'20.3478"W   0.00   11500.00†   90.000   1.991   7902.00   382	a material de discourse alternations	A recommission and reduction and a con-		, 6	is broaded to the sea securital resources about a	media relative a med anticher and	77:16	575631.85	416257:51	32°08'39'559''N'	104°13'21-102",W	· 0.00	
10300.00†   90.000   1.991   7902.00   2520.75   2519.23   87.58   575642.27   416557.30   32°08'42.526"N   104°13'20.977"W   0.00     10400.00†   90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416657.23   32°08'43.515"N   104°13'20.935"W   0.00     10500.00†   90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00     10700.00†   90.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'45.493"N   104°13'20.810"W   0.00     10800.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00     10900.00†   90.000   1.991   7902.00   3120.75   3118.87   108.43   575663.12   417156.88   32°08'48.459"N   104°13'20.769"W   0.00     10900.00†   90.000   1.991   7902.00   3220.75   3218.81   417190   575666.59   417256.81   32°08'48'48"N   104°13'20.686"W   0.00     11100.00†   90.000   1.991   7902.00   3320.75   3318.75   115.38   575670.07   417356.74   32°08'50.437"N   104°13'20.602"W   0.00     11200.00†   90.000   1.991   7902.00   3520.75   3418.69   118.85   575673.54   417456.67   32°08'50.437"N   104°13'20.602"W   0.00     11400.00†   90.000   1.991   7902.00   3520.75   3418.69   118.85   575673.54   417456.67   32°08'52.415"N   104°13'20.561"W   0.00     11500'00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575683'96   417756.63   32°08'52.415"N   104°13'20.561"W   0.00     11500'00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'53.4393"N   104°13'20.359"W   0.00     11600.00†   90.000   1.991   7902.00   3820.75   3918.35   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.351"W   0.00     11600.00†   90.000   1.991   7902.00   3820.75   3918.35   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.353"W   0.00     11600.00†   90.000   1.991   7902.00   3820.75   3918.35   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.353"W   0.00		*******										0.00	
10400.00†   90.000   1.991   7902.00   2620.75   2619.17   91.05   575645.75   416657.23   32°08'43.515"N   104°13'20.935"W   0.00   10500.00†   90.000   1.991   7902.00   2720.75   2719401   594:53   575649.22   416757.16   32°08'44.504"N   104°13'20.852"W   0.00   10700.00†   90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   10700.00†   90.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'46.481"N   104°13'20.852"W   0.00   10800.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00   10900.00†   90.000   1.991   7902.00   3120.75   3118.87   108.43   575663.12   417156.88   32°08'48.459"N   104°13'20.777"W   0.00   11000.00†   90.000   1.991   7902.00   3220.75   3218.81   11190   575666.59   417256.81   32°08'49.4481"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3320.75   3318.75   115.38   575670.07   417356.74   32°08'50.437"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3420.75   3418.69   118.55   575673.54   417456.67   32°08'50.437"N   104°13'20.561"W   0.00   11400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417556.60   32°08'52.415"N   104°13'20.561"W   0.00   11500'00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417556.47   32°08'53.404"N   104°13'20.519"W   0.00   11500'00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.331"N   104°13'20.346"W   0.00   11600.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32°08'55.331"N   104°13'20.335"W   0.00   11600.00†   90.000   1.991   7902.00   3920.75   3918.39   36.22   575690.91   417956.33   32°08'55.331"N   104°13'20.335"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'57.359"N   104°13'20.331"W   0.00   11900.00†   90.000   1.991   7902.00											104°13'21.019"W		
10500.00    090.000   1.991   7902.00   2720.75   2719.44   945.53   575649.22   416757.16   32°08'44.504'N   1049'13'20.894'W   0000   1.000.00   090.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   1.000.00   090.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'46.481"N   104°13'20.810"W   0.00   1.000.00   0.000   0.000   0.991   7902.00   3120.75   3118.87   108.43   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00   1.000.00   0.000   0.000   0.991   7902.00   3220.75   3218.81   10190   575666.59   417256.81   32°08'49.448"N   104°13'20.686"W   0.00   0.00   0.0000   0.000   0.000   0.0000   0.0000   0.0000   0.0000   0.0000   0.000						بالتحانسات فيتناه					Contract of the Contract of th	and do not not the state of	
10600.00    90.000   1.991   7902.00   2820.75   2819.05   98.00   575652.69   416857.09   32°08'45.493"N   104°13'20.852"W   0.00   10700.00    90.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'46.481"N   104°13'20.810"W   0.00   10800.00    90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00   10900.00    90.000   1.991   7902.00   3120.75   3118.87   108.43   575663.12   417156.88   32°08'48.459"N   104°13'20.727"W   0.00   110000.00    90.000   1.991   7902.00   3220.75   3218.81   1119.90   575666.59   417256.81   32°08'49.448"N   104°13'20.686"W   0.00   111000.00    90.000   1.991   7902.00   3220.75   3418.69   118.85   575670.07   417356.74   32°08'50.437"N   104°13'20.602"W   0.00   11200.00    90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'52.415"N   104°13'20.561"W   0.00   11400.00    90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32°08'53.404"N   104°13'20.519"W   0.00   11500.00    90.000   41.991   7902.00   3720.75   3718/51   129/27   575687.44   417856.40   32°08'53.404"N   104°13'20.436"W   0.00   11500.00    90.000   41.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.436"W   0.00   11700.00    90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.436"W   0.00   11700.00    90.000   1.991   7902.00   3920.75   3918.39   36.22   575690.91   417956.33   32°08'55.350"N   104°13'20.353"W   0.00   11800.00    90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'57.355"N   104°13'20.335"W   0.00   11900.00    90.000   1.991   7902.00   4020.75   4018.32   139.70   575697.86   418156.19   32°08'58.348"N   104°13'20.311"W   0.00	Marin Anna - Mariner	Lameston Annual Street											
10700.00†   90.000   1.991   7902.00   2920.75   2918.99   101.48   575656.17   416957.02   32°08'46.481"N   104°13'20.810"W   0.00   10800.00†   90.000   1.991   7902.00   3120.75   3118.87   108.43   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00   10900.00†   90.000   1.991   7902.00   3120.75   3118.87   108.43   575663.12   417156.88   32°08'49.448"N   104°13'20.727"W   0.00   11000:00†   90.000   1.991   7902.00   3220.75   3218.81   111/90   575666.59   417256.81   32°08'49.448"N   104°13'20.686"W   0.00   11100.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575670.07   417356.74   32°08'50.437"N   104°13'20.644"W   0.00   11200.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575673.54   417456.67   32°08'51.426"N   104°13'20.602"W   0.00   11400.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'53.404"N   104°13'20.561"W   0.00   11400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32°08'53.404"N   104°13'20.519"W   0.00   11500'00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575683.96   41775647   32°08'55.381"N   104°13'20.436"W   0.00   11700.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32°08'55.381"N   104°13'20.394"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'55.359"N   104°13'20.353"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'55.359"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'55.348"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4120.75   4118.26   143.17   575697.86   418156.19   32°08'58.348"N   104°13'20.311"W   0.00										A 2 - 1/2 1/2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	74 mg 44407 ( 12 m 44 t ) " married 12 m 12 m 13 m 13 m 13 m 13 m 13 m 13 m	A-14,	
10800.00†   90.000   1.991   7902.00   3020.75   3018.93   104.95   575659.64   417056.95   32°08'47.470"N   104°13'20.769"W   0.00   10900.00†   90.000   1.991   7902.00   3120.75   3118.87   108.43   575663.12   417156.88   32°08'48.459"N   104°13'20.727"W   0.00   11000:00†   90.000   1.991   7902.00   3220.75   3218.81   111'90   575666.59   417256.81   32°08'49'448"N   104°13'20.664"W   0.00   11200.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575670.07   417356.74   32°08'50.437"N   104°13'20.664"W   0.00   11200.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'51.426"N   104°13'20.602"W   0.00   11400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32°08'53.404"N   104°13'20.519"W   0.00   11500'00†   90.000   1.991   7902.00   3720.75   3718'51   129.27   575683.96   417756'47   32°08'55.381"N   104°13'20.478"W   0.00   11700.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.436"W   0.00   11700.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32°08'55.35"N   104°13'20.394"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'53.35"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'53.35"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'55.35"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'53.35"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575697.86   418156.19   32°08'58.348"N   104°13'20.311"W   0.00											بربر بسد مربعتن بربر بربر بربر بسيد بعرب مسيع بهروها المجمود بسيد		
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11000:00†   90.000   1.991   7902:00   3220.75   3218:81   1119:90   575666.59   41.7256.81   32.0849;448; N   1043;13:20.686; W   50.00     11100.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575670.07   417356.74   32.0850.437"N   104.13'20.644"W   0.00     11200.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575673.54   417456.67   32.08'51.426"N   104.13'20.602"W   0.00     11300.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32.08'52.415"N   104.13'20.561"W   0.00     11400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32.08'53.404"N   104.13'20.519"W   0.00     11500:00†   90.000   41991   7902.00   3720.75   3748'51   129.27   575683.96   417756.47   32.08'53.404"N   104.13'20.438"W   0.00     11600.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32.08'55.381"N   104.13'20.436"W   0.00     11700.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32.08'55.35"N   104.13'20.394"W   0.00     11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32.08'57.359"N   104.13'20.353"W   0.00     11900.00†   90.000   1.991   7902.00   4120.75   4118.26   143.17   575697.86   418156.19   32.08'58.348"N   104.13'20.311"W   0.00													
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11200.00†   90.000   1.991   7902.00   3420.75   3418.69   118.85   575673.54   417456.67   32°08'51.426"N   104°13'20.602"W   0.00   11300.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'52.415"N   104°13'20.561"W   0.00   11400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32°08'53.404"N   104°13'20.519"W   0.00   11500'00†   90.000   41991   7902.00   3720.75   3718'51   129'27   575683'96   417756'47   32°08'54'393'N   104°13'20.478"W   0.00   11700.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.436"W   0.00   11700.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32°08'56.370"N   104°13'20.394"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'57.359"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4120.75   4118.26   143.17   575697.86   418156.19   32°08'58.348"N   104°13'20.311"W   0.00	D	Au office roads, the office address	Contract of the Post	Carried Control	and the second second second	a secondary and a second	******		to the additional property and the second second	** ** *** *** *** *** *** *** *** ***	Sa. M. C. C. C. P. Mar	THE SHARWAY OF CHILDREN	N. 14.22 (14.4.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5
1300.00†   90.000   1.991   7902.00   3520.75   3518.63   122.32   575677.01   417556.60   32°08'52.415"N   104°13'20.561"W   0.00     1400.00†   90.000   1.991   7902.00   3620.75   3618.57   125.80   575680.49   417656.53   32°08'53.404"N   104°13'20.519"W   0.00     1500'00†   90.000   41991   7902.00   3720.75   3718.51   129'27   575683'96   417756.47   32°08'54.393"N   104°13'20.478"W   0.00   11700.00†   90.000   1.991   7902.00   3820.75   3818.45   132.75   575687.44   417856.40   32°08'55.381"N   104°13'20.436"W   0.00   11700.00†   90.000   1.991   7902.00   3920.75   3918.39   136.22   575690.91   417956.33   32°08'56.370"N   104°13'20.394"W   0.00   11800.00†   90.000   1.991   7902.00   4020.75   4018.32   139.70   575694.38   418056.26   32°08'57.359"N   104°13'20.353"W   0.00   11900.00†   90.000   1.991   7902.00   4120.75   4118.26   143.17   575697.86   418156.19   32°08'58.348"N   104°13'20.311"W   0.00													
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# Planned Wellpath Report Prelim\_1 Page 5 of 5



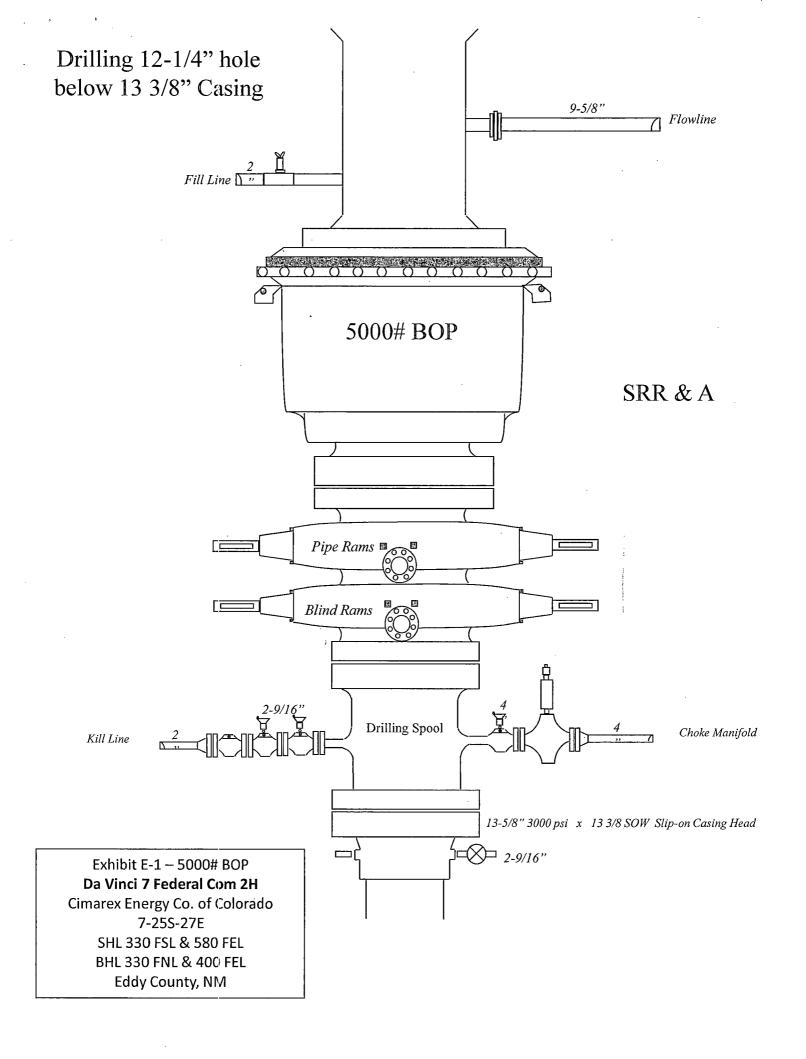
रिष्ठिक्रम्	ENCE WELLEATHIND BATHINGATION		
Operator	Cimarex Energy Co. of Colorado	Slot	No.2H SHL
Area	Eddy County, NM	Well	No.2H
Field	(Da Vanci) Sec. 7, T25S, R27E	Wellbore	No.2H PWB
	Da Vanci 7 Fed Com No.2H		

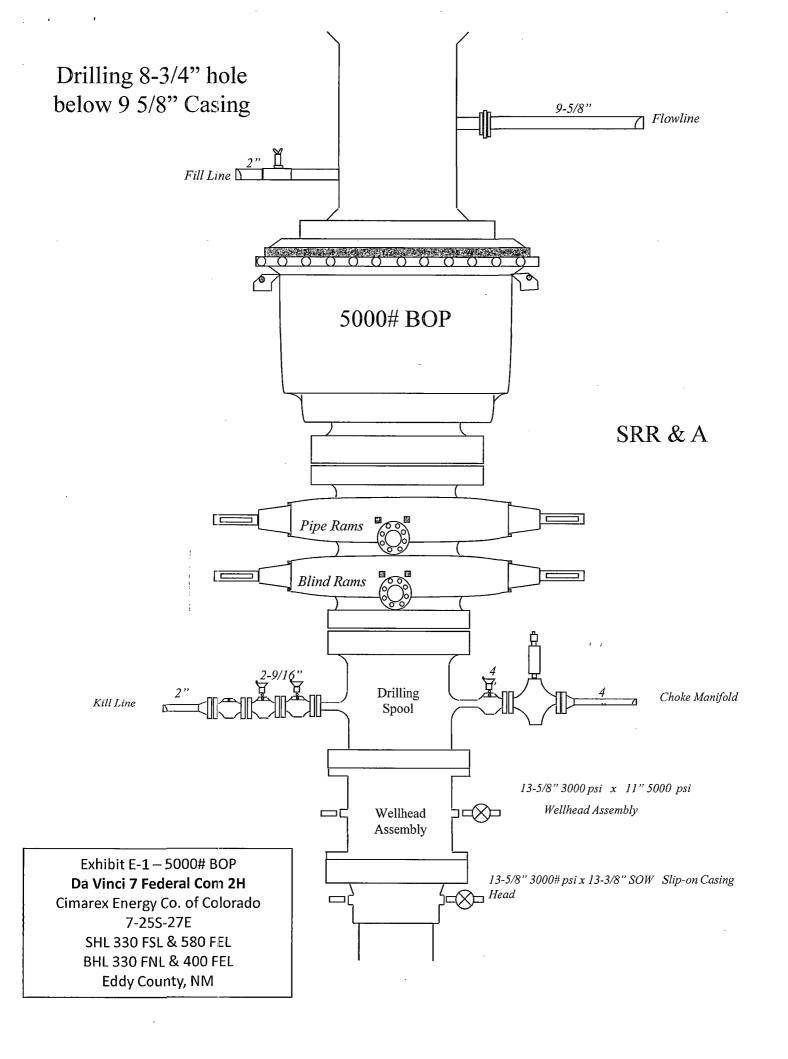
WELLP	ATH DA	ΓA (140	station	s)	interpol	äted/e	ktrapolate	d station ,			agus est.	
	Inclination			Vert Sect		East		Grid North	Latitude	Longitude		Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]	
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12200.00†	90.000	1.991	7902.00	4420.75	4418.08	153.60	575708.28	418455.98	32°09'01.315"N	104°13'20.186"W	0.00	
12300.00†	90.000	1.991	7902.00	4520.75	4518.02	157.07	575711.76	418555.91	32°09'02.304"N	104°13'20.145"W	0.00	
12400.00†	90.000								32°09'03.293"N		0.00	
12421:88	90.000	1:991	7902.00 <sup>1</sup>	4642.63	*4639.83	161.31	575715.99	418677.70	32°09'03.509"N	.104°13'20.094"W	0:00	No.2H PBHL

HOLE & CASING SI	ECTIONS -	Ref Wellbore	: No.2H PWB	Ref Wellpa	th: Prelim_1			W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
8.75in Open Hole	0.00	12422.00	12422.00	0.00	NA	0.00	0.00	NA	NA

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North	Latitude	Longitude	Shape
1) AT DOTT	12421.88	7902.00	4639.82	161.31			32°09'03'.509''N	104°,13'20:094" W	point
1) No.2H PBHL									

SURVEY PRO	)GRAM : Rêf !	Wellbore: No.2H PWB ≀ Ref Wellpath: Prelim_1		
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore
[ft]	[ft]			
0.00		NaviTrak (Standard)		No.2H PWB





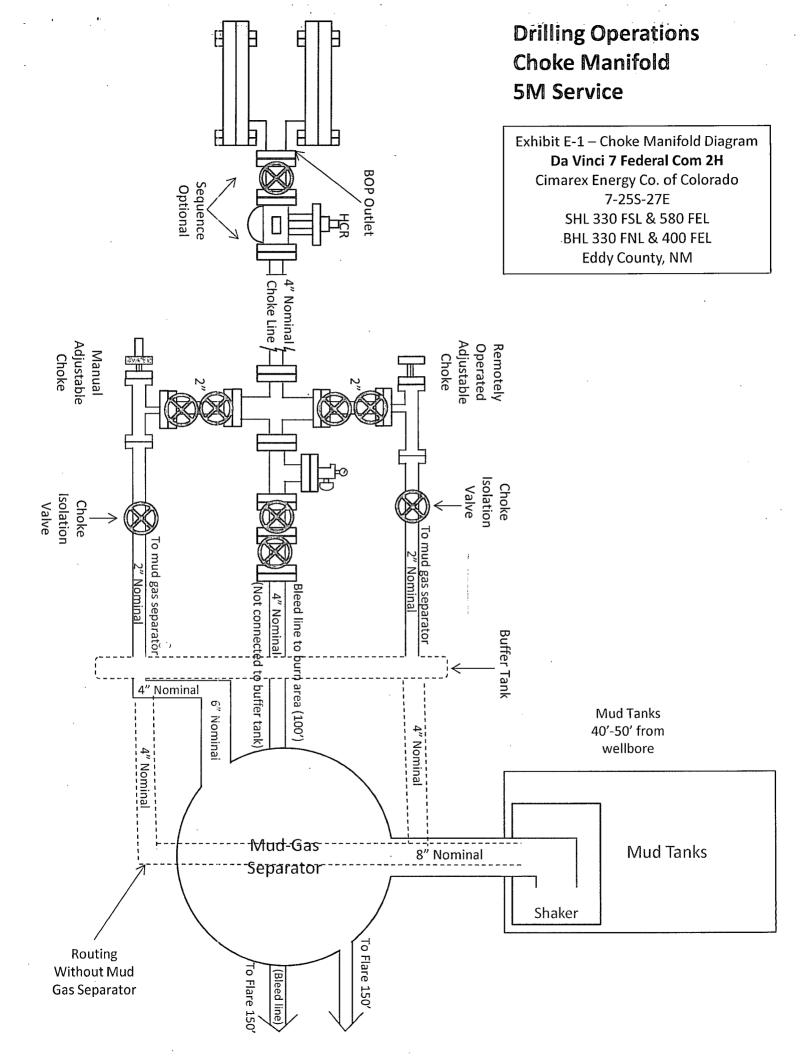




Exhibit F -3 – Co-Flex Hose Da Vinci 7 Federal Com 2H Cimarex Energy Co. of Colorado 7-25S-27E SHL 330 FSL & 580 FEL BHL 330 FNL & 400 FEL Eddy County, NM

# Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium componets. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:

5,000 or 10,000 psi working pressure

Test Pressure:

10,000 or 15,000 psi test pressure

Reinforcement:

Multiple steel cables

Cover:

Stainless Steel Armor

Inner Tube:

Petroleum resistant, Abrasion resistant

End Fitting:

API flanges, API male threads, threaded or butt weld hammer

unions, unibolt and other special connections

Maximum Length:

110 Feet

D:

2-1/2", 3", 3-1/2", 4"

Operating Temperature: -22 deg F to +180 deg F (-30 deg C to +82 deg C)

# Exhibit F-1 – Co-Flex Hose Hydrostatic Test Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado 7-25S-27E SHL 330 FSL & 580 FEL BHL 330 FNL & 400 FEL Eddy County, NM

Midwest Hose & Specialty, Inc. PSI 8000 Test Pressure 18000 12000. 15000 6000 Working Pressure 6.42.9M Customer: Houston. Time Held at Test Pressure
11 Minutes A STATE OF THE STA Internal Hydrostatic Test Graph Hurst Pressure A STATE OF THE STA Length 45' Q.D. 6.09" S. C. C. Pressure Test Time in Minutes Weak. And the Type of Fitting
41/1610K
Die Size
6:38"
Hose Serial:#
5544 Actual Burst Pressure Pick Ticket #: 94260 Males Hose Assembly Serial # 79793

Approved By: Kim Thomas

Peak:Pressure 15483.PSI

Tested By: Zec Mcconnell

Comments: Hose assembly pressure tested with water at ambient temperature.

March 3, 2011

Exhibit F-2 – Co-Flex Hose

Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado

7-25S-27E

SHL 330 FSL & 580 FEL

BHL 330 FNL & 400 FEL

Eddy County, NM



	Certificate	of Conform	ity
Gustomer:	DEM		PO ODYD-271
Telepropriate propriate pr	SPECI	IFICATIONS	
Sales Order 797	The second secon		3/8/2011
	<u> </u>		
for the re accordin	eferenced purc	the material su chase order to l ements of the l stry standards	be true
10640 T	r: t Hose & Speci anner Road n, Texas 77041		· .
Comments:		<del>same e a de Medicolo de</del>	<del>and any professional professional and the second a</del>
Approved:		<del>yaya kana asa</del>	Date:
	Blancia		3/8/2011

Exhibit F-1 – Co-Flex Hose Hydrostatic Test.

Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado

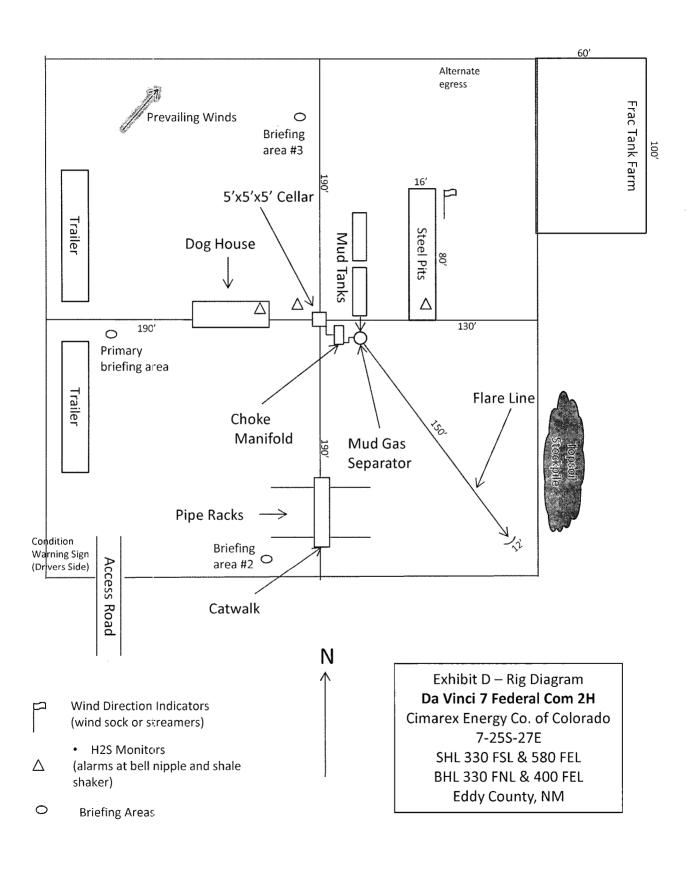
7-25S-27E

SHL 330 FSL & 580 FEL BHL 330 FNL & 400 FEL Eddy County, NM



# Midwest Hose & Specialty, Inc.

INTERNAL	HYDROST	ATIC TEST	T REPOR	RT	i sagrifi
Customer:	derco inc		P.O. Num	ber: yd-271	
	HOSE SPECI	FICATIONS	**		,
Type: Stainless S Choke & K	iteel Armor ill Hose	<del>राज्य विकास सम्बद्धाः स्टब्स्ट</del> १	Hose Leng	ith: 45'ft.	e e e
I.D. 4	INCHES	<b>©</b> Д.	9	INCHES	
WORKING PRESSURE	TEST PRESSUR	E	BURST PRE	SSURE	
10,000 <i>PSI</i>	15,000	PSI		0 <i>P</i>	sı
	COUF	PLINGS			
Stem Part No. OKC OKC		Ferrule No.	okc okc		
Type of Coupling: Swage-I	į				
en e con e per ce per cen e de apropria en anterior en	PROC	EDURE	ama mare, es eu a ana e, eu nama		7. 15.15
Hose assembly	pressure tested ŵl	th water at ambien	t temperature .	٠.	
9 T.	TEST PRESSURE		BURST PRESSI	ĴŖĘ:	
15	MIŅ.			0 PSI	
Hose Assembly Seria 79793		Hose Serial I		gaetakelaaetake	
Comments:	er vi (Tillium) vi i i vim mev vi grejvi i i	the enter of the grand we will be	Telak en kon gili ili ili	्रे अकार <u>, क</u> ्राह्म हर, कर र	
Date: 3/8/2011	Tested:	Dain Zmu.	Approved:	Afet	inggan aryyr



# Hydrogen Sulfide Drilling Operations Plan

### Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado
UL P - Sec 7-25S-27E
Eddy County, NM

# 1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:

- A. Characteristics of H<sub>2</sub>S
- B. Physical effects and hazards
- C. Principal and operation of H2S detectors, warning system and briefing areas.
- D. Evacuation procedure, routes and first aid.
- E. Proper use of safety equipment & life support systems
- F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

# 2 H<sub>2</sub>S Detection and Alarm Systems:

- A. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may play placed as deemed necessary.
- B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

# 3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.

## 4 Condition Flags and Signs

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H<sub>2</sub>S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

# 5 Well control equipment:

A. See exhibit "E-1"

# 6 Communication:

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

# 7 Drillstem Testing:

No DSTs or cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

# H<sub>2</sub>S Contingency Plan

### Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado UL P - Sec 7-25S-27E Eddy County, NM

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must:

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response.
- " Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached. «
- Have received training in the:
  - Detection of H₂S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

# **Ignition** of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SC<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

Common	Chemical	Specific	Threshold	Hazardous	Lethal
Name	Formula	Gravity	Limit	Limit	Concentration
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air=1	2 ppm	N/A	1000 ppm

# **Contacting Authorities**

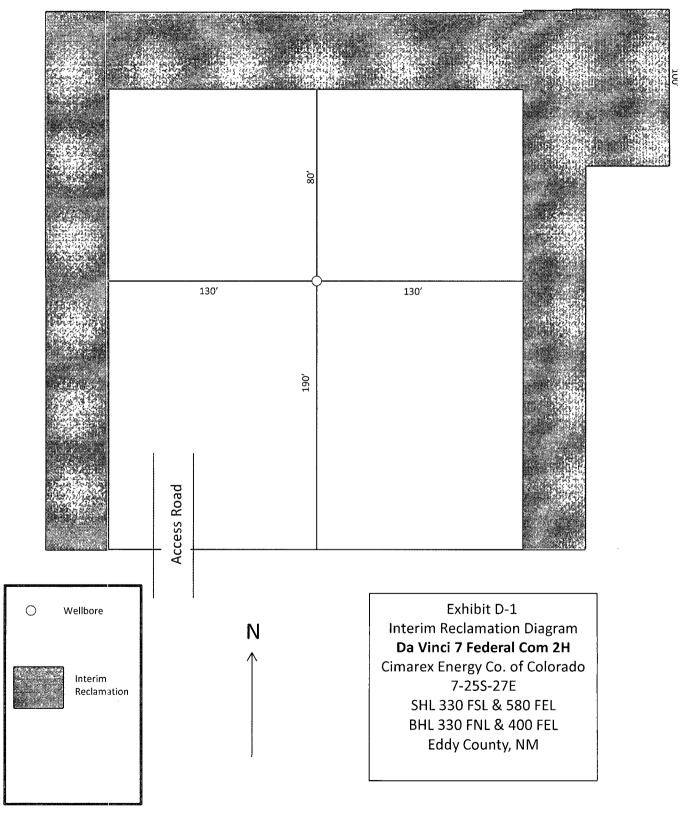
Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

# H<sub>2</sub>S Contingency Plan Emergency Contacts

# Da Vinci 7 Federal Com 2H

Cimarex Energy Co. of Colorado UL P - Sec 7-25S-27E Eddy County, NM

Cimarex Energy Co. of Colorado		800-969-4789		
Co. Office and After-Hours Mer	าน			
Key Personnel				
Name	Title	Office	Mobile	
Larry Seigrist	Drilling Manager	432-620-1934	580-243-	-8485
Doug McQuitty	Drilling Superintendent	432-620-1933	806-640-	-2605
Scott Lucas	Drilling Superintendent	432-620-1989	432-894-	-5572
Conner Cromeens	Construction Foreman		432-270-	-0313
Roy Shirley	Construction Superintendent		432-634-	-2136
<u>Artesia</u>				
Ambulance		911	•	
State Police		575-746-2703		
City Police		575-746-2703		
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning Co	ommittee	575-746-2122		
New Mexico Oil Conservatio	n Division	575-748-1283		
<u>Carlsbad</u>			,	
Ambulance		911		
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		·
Fire Department	<u> </u>	575-887-3798		
Local Emergency Planning Co		575-887-6544		
US Bureau of Land Managen	nent	575-887-6544		
Santa Fe		TAE ATS ASSA		
	ponse Commission (Santa Fe)	505-476-9600		
	ponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergeno	cy Operations Center	505-476-9635		
Nietiewal				
National	se Center (Washington, D.C.)	800-424-8802		
National Emergency Respons	se center (washington, b.c.)	000-424-0002		
<u>Medical</u>				
Flight for Life - 4000 24th St.	· Lubbock TX	806-743-9911		
Aerocare - R3, Box 49F; Lubb		806-747-8923		
	ale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
<del></del>	ark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
Other				
		800-256-9688	or 281-931-	-8884
Boots & Coots IWC				
		432-699-0139	or 432-563-	-3356
Boots & Coots IWC Cudd Pressure Control Halliburton		432-699-0139 575-746-2757	or 432-563-	-3356



# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM-100332
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
COUNTY:
Dimarex Energy Co. of Colorado
NMNM-100332
NMNM-100332
Da Vinci 7 Federal Com 2H
0330' FSL & 0580' FEL
0330' FNL & 0400' FEL
Section 07, T. 25 S., R 27 E., NMPM
Eddy County, New Mexico

# TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Communitization Agreement
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
<b>☑</b> Drilling
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandanment & Declamation

# I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

# II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

# III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

# IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

# V. SPECIAL REQUIREMENT(S)

# **Drilling:**

# **Communitization Agreement**

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

# VI. CONSTRUCTION

# A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

# B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

# C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

# D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

# E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

# F. ON LEASE ACCESS ROADS

# Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

# Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

# Crowning

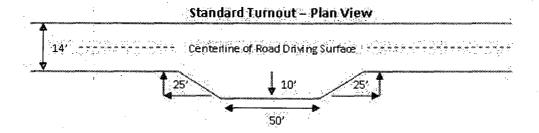
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

# Ditching

Ditching shall be required on both sides of the road.

### Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

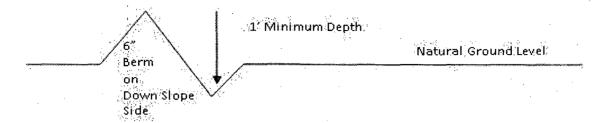


## Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

# Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

# Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

## **Culvert Installations**

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

# Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

# **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

shouldertimour 10° This recipies to the constructed on all single lane reads on all single lane reads on all single lane reads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. Typical Turnout Plan embankment **Embankment Section** CONT 03 - 05 6/8 soup soupce 102 - .04 1/8 .02 = .03 h/h Depth measured from the bottom of the disch Side Hill Section from 2 - 4% ) **Typical Inslape Section Typical Outsloped Section** 

Figure 1 - Cross Sections and Plans For Typical Road Sections

# VII. DRILLING

# A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

# **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

# B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst
Possibility of lost circulation in the Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 450 feet and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
  - 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 is to include the lead cement slurry.
  - 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.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing, which shall be set at approximately 2020 feet, 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.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

## Centralization for production casing is approved as written.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 23% Additional cement may be required.
- 4. 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.

#### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
  - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

- 4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M 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.
- 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 when specified), 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. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 (18 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).
  - c. 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.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. 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.
  - f. 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.

# D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

## E. 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.

**JAM 040113** 

# VIII. PRODUCTION (POST DRILLING)

#### A. WELL STRUCTURES & FACILITIES

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

#### **Containment Structures**

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

# **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

## B. PIPELINES

#### **BURIED PIPELINE STIPULATIONS**

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be 20 feet:
  - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 20 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
  - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

(X) seed mixture 1	( ) seed mixture 3
( ) seed mixture 2	( ) seed mixture 4
( ) seed mixture 2/LPC	( ) Aplomado Falcon Mixture

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 18. Escape Ramps The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
  - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
  - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

## C. ELECTRIC LINES

# STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the approved application and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b.

A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Power lines," Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.
- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 9. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the

Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

## 10. Special Stipulations

£ 4

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes with native soil from the removed poles.

## IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

## X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

# Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

# Species

	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

<sup>\*</sup>Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed