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

District II

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

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

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

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

Form C-101 August 1, 2011

Permit 336890

	APPLICATION FOR PERMIT TO DRILL	. RE-ENTER. DEEPEN	. PLUGBACK	OR ADD A ZONE
--	---------------------------------	--------------------	------------	---------------

1. Operator Name and Address	2. OGRID Number						
CIMAREX ENERGY CO. OF COLOR	CIMAREX ENERGY CO. OF COLORADO						
600 N. Marienfeld Street	3. API Number						
Midland, TX 79701	30-025-51236						
4. Property Code	5. Property Name	6. Well No.					
329861	RED HILLS 32 5 STATE COM	203H					

7. Surface Location

UL - Lot Section		Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	Α	32	25S	33E	Α	407	N	510	E	Lea

8. Proposed Bottom Hole Location

	8: Froposed Bottom Hole Location								
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Р	5	265	33F	Р	100	S	1248	F	Lea

### 9. Pool Information

WC-025 G-08 S253235G;LWR BONE SPRIN	97903

#### Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3391
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	20965	3rd Bone Spring Carbonate		11/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

### ☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC			
Surf	17.5	13.375	48	976	605	0			
Int1	12.25	9.625	40	4980	1239	0			
Prod	8.75	7	29	10273	0	0			
Prod	8.75	7	29	11023	462	4780			
Liner1	6	4.5	11.6	20965	738	10823			

## Casing/Cement Program: Additional Comments

## 22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	Cameron
Double Ram	3000	3000	Cameron
Double Ram	5000	5000	Cameron

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION	
Printed Name:	Electronically filed by Sarah Jord	an	Approved By:	Paul F Kautz		
Title:	Regulatory Analyst		Title:	Geologist		
Email Address:	dress: sarah.jordan@coterra.com			3/27/2023	Expiration Date: 3/27/2025	
Date:	3/22/2023	Phone: 432-620-1909	Conditions of Approval Attached			

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

30-02 <sup>5</sup> -51236	ŗ	<sup>2</sup> Pool Code		
30-025-51250	)	97903	WC-025 G-08	Spring
329861		5 Pr	6 Well Number	
327001		RED HILLS	203Н	
7 OGRID No.		9 Elevation		
162683		CIMARE	3391.3'	

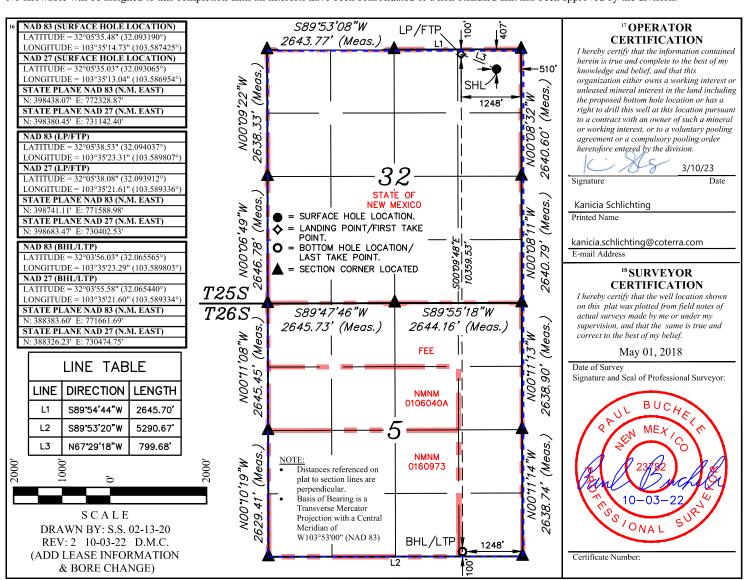
## <sup>10</sup> Surface Location

UL or lot no. Se	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	25S	33Ē		407	NORTH	510	EAST	LEA

### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. P	Section 5	Township 26S	Range 33E	Lot Idn	Feet from 100	the	North/South line SOUTH	Feet from the 1248	East/West line EAST	County LEA
12 Dedicated Acre	es I	<sup>3</sup> Joint or Infill	14 Conse	olidation Code	15 Or	der No.				
1280			l							

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.



Form APD Conditions

Permit 336890

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

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

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

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

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

### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CIMAREX ENERGY CO. OF COLORADO [162683]	30-025-51236
600 N. Marienfeld Street	Well:
Midland, TX 79701	RED HILLS 32 5 STATE COM #203H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

### Schlumberger

## Coterra Red Hills 32-5 State Com 203H Rev1 kFc 28Nov22 Proposal **Geodetic Report**



(Def Plan)

Report Date: Field: re / Slot Well: Borehole

UWI / API#: Survey Name Survey Date: Tort / AHD / DDI / ERD Ratio:

Coordinate Reference System: Location Lat / Long Location Grid N/E Y/X: CRS Grid Convergence Angle: Version / Patch:

November 28, 2022 - 02:13 PM COTERRA NM Lea County (NAD 83)

Coterra Red Hills 32-5 State Com Pad (east) / 203H Red Hills 32-5 State Com 203H

Red Hills 32-5 State Com 203H Unknown / Unknown Coterra Red Hills 32-5 State Com 203H Rev1 kFc 28Nov22

November 28, 2022 112.042 ° / 11246.654 ft / 6.388 / 1.041

NAD83 New Mexico State Plane, Eastern Zone, US Feet N  $32^{\circ}$  5' 35.48264", W  $103^{\circ}$  35' 14.73006"

N 398438.070 ftUS, E 772328.870 ftUS 0.3963 0.9999702 2.10.834.0

Survey / DLS Computation: Vertical Section Azimuth: Vertical Section Origin: TVD Reference Datum TVD Reference Elevation: Magnetic Declination: Total Gravity Field Strength:

Gravity Model: Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid

North Local Coord Referenced To:

Minimum Curvature / Lubinski 179.600 ° (Grid North) 0.000 ft, 0.000 ft RKB = 23ft 3414.300 ft above MSL 3391.300 ft above MSL 6.279°

998.4315mgn (9.80665 Based) GARM 47408.162 nT 59.644° November 28, 2022 HDGM 2022 Grid North 0.3963° 5.8829

Well Head

Lonaitude MD Incl Azim Grid TVD VSEC FW DI S Northing Fasting Latitude Comments (°/100ft) (ftUS) (E/W °) (ftUS) (N/S °) (ft) (°) (ft) (ft) (ft) (ft) SHL [407' FNL, 0.00 0.00 0.00 0.00 0.00 0.00 0.00 N/A 398438.07 772328.87 N 32.093190 W 103.587425 510' FEL] W 103.587425 100.00 290.00 0.00 398438.07 772328.87 N 32.093190 200.00 290.00 0.00 0.00 398438.07 0.00 200.00 0.00 0.00 772328.87 N 32.093190 W 103.587425 300.00 0.00 290.00 300.00 0.00 0.00 0.00 0.00 398438.07 772328.87 N 32.093190 W 103.587425 400.00 0.00 290.00 400.00 0.00 0.00 0.00 0.00 398438 07 772328.87 772328.87 N 32.093190 N 32.093190 W 103.587425 W 103.587425 500.00 0.00 398438.07 500.00 0.00 290.00 0.00 0.00 0.00 600.00 0.00 290.00 600.00 0.00 0.00 0.00 0.00 398438.07 772328.87 N 32.093190 W 103.587425 700.00 0.00 290.00 700.00 800.00 0.00 0.00 0.00 0.00 398438.07 398438.07 772328.87 772328.87 N 32.093190 N 32.093190 W 103.587425 W 103.587425 800.00 290.00 900.00 0.00 290.00 900.00 0.00 0.00 0.00 0.00 398438.07 772328.87 N 32.093190 W 103.587425 Rustler 926.00 0.00 290.00 926.00 0.00 0.00 0.00 0.00 398438.07 772328.87 N 32.093190 W 103.587425 1000.00 772328.87 0.00 290.00 1000.00 398438.07 N 32.093190 W 103.587425 0.00 0.00 0.00 1100.00 0.00 290.00 1100.00 0.00 0.00 0.00 0.00 398438.07 772328.87 N 32.093190 W 103.587425 Nudge, Build 2°/100ft 1200.00 0.00 290.00 1200.00 0.00 0.00 772328.87 0.00 0.00 398438.07 N 32.093190 W 103.587425 1295.02 1295.00 398438.61 772327.39 N 32.093191 W 103.587430 1.90 290.00 -0.55 0.54 -1.48 2.00 Top Salt 772327.23 772322.31 1300.00 2 00 290.00 1299 98 -0.61 0.60 -1 64 2.00 398438 67 N 32 093191 W 103 587430 1400.00 290.00 1399.84 -2.43 -6.56 -14.75 2.00 398440.46 N 32.093196 4.00 W 103.587446 2.39 398443.44 1500.00 6.00 290.00 1499.45 -5.47 5.37 2.00 772314.12 N 32.093205 W 103.587473 1600.00 8.00 290.00 1598.70 -9.72 9.54 -26.20 2.00 398447.61 772302.67 N 32.093216 W 103.587509 11.40 14.66 772297.54 772288.61 398449.47 -14.94 -40.26 398452.73 1700.00 8.75 290.00 1697.57 0.00 N 32.093231 W 103.587555 1800 00 8 75 290.00 1796 41 -20 24 19.86 -54 56 0.00 398457 93 772274 31 N 32 093245 W 103 587601 1900.00 8.75 8.75 8.75 398463.13 772260.02 772245.73 N 32.093260 103.587647 290.00 290.00 398468.34 2000.00 1994.08 -30.85 30.27 -83.15 0.00 N 32.093274 W 103.587693 2100.00 290.00 2092.92 -36.15 35.47 -97.44 0.00 398473.54 772231.43 N 32.093289 W 103.587739 8.75 8.75 290.00 290.00 2191.76 -41.45 -46.76 40.67 -111.74 0.00 398478.74 398483.95 772217.14 772202.84 N 32.093304 103.587785 2300.00 2290.59 45.88 -126.03 N 32.093318 W 103.587831 772188.55 W 103.587877 2400.00 8.75 290.00 2389.43 -52.06 51.08 -140.32 0.00 398489.15 N 32.093333 8.75 8.75 8.75 2500.00 2600.00 290.00 2488 26 -57.36 56.28 61.49 -154.62 0.00 398494.35 772174.26 772159.96 N 32.093347 N 32.093362 W 103.587923 2587.10 -62.67 -168.91 398499.56 W 103.587969 290.00 2700.00 290.00 2685.94 -67.97 66.69 -183.21 0.00 398504.76 772145.67 N 32.093376 W 103.588015 8.75 8.75 8.75 290.00 290.00 -73.27 -78.57 71.89 77.10 -197.50 -211.79 0.00 772131.38 772117.08 2800.00 2784.77 398509.96 N 32.093391 W 103.588061 2900.00 N 32.093406 W 103.588107 2883.61 398515.16 3000.00 290.00 2982.45 -83.88 82.30 -226.09 0.00 398520.37 772102.79 N 32.093420 W 103.588153 0.00 772088.49 772074.20 3100.00 8.75 290.00 3081 28 -89 18 87.50 -240.38 398525 57 N 32.093435 W 103 588199 8.75 290.00 -94.48 92.71 -254.68 N 32.093449 W 103.588245 3200.00 3180.12 398530.77 3300.00 8.75 290.00 3278.95 -99.79 97.91 -268.97 0.00 398535.98 772059.91 N 32.093464 W 103.588291 3400.00 8.75 8.75 290.00 3377.79 -105.09 103.11 108.32 -283.27 0.00 398541.18 772045.61 772031.32 N 32.093478 W 103.588337 -110.39 -115.70 3500.00 290.00 8.75 -311.85 398551.59 3600.00 290.00 3575.46 113.52 0.00 772017.03 N 32.093508 W 103.588429 3700.00 8 75 290.00 3674 30 -121 00 118 72 -326 15 0.00 398556 79 772002.73 N 32 093522 W 103 588475 8.75 8.75 3773.13 3871.97 0.00 398561.99 771988.44 771974.14 N 32.093537 103.588521 3800.00 290.00 -126.30 123.93 -354.74 0.00 3900.00 290.00 -131.60 129.13 398567.20 N 32.093551 W 103.588568 4000.00 8.75 290.00 3970.81 -136.91 134.33 -369.03 0.00 398572.40 771959.85 N 32.093566 W 103.588614 290.00 -142.21 -147.51 139.54 771945.56 4200.00 8.75 290.00 4168.48 144.74 -397.62 0.00 398582.81 771931.26 N 32.093595 W 103.588706 4300.00 8.75 290.00 4267.32 -152.82 149.94 -411.91 0.00 398588.01 771916.97 N 32.093610 W 103.588752 8.75 8.75 8.75 4400.00 4366.15 -158.12 -426.21 -440.50 398593.21 771902.68 771888.38 N 32.093624 103.588798 4500.00 290.00 4464.99 -163.42 160.35 0.00 398598.42 N 32.093639 W 103.588844 4600.00 290.00 4563.82 -168.73 165.55 -454.80 0.00 398603.62 771874.09 N 32.093653 W 103.588890 4700.00 4800.00 8.75 8.75 290.00 290.00 -174.03 -179.33 -469.09 -483.38 0.00 398608.82 398614.03 771859.79 771845.50 N 32.093668 N 32.093682 W 103.588936 W 103.588982 4662.66 170.76 4761.50 175.96 4900.00 8.75 290.00 4860.33 -184.63 181.16 -497.68 0.00 398619.23 771831.21 N 32.093697 W 103.589028 4940.13 8.75 290.00 4900.00 -186.76 183.25 -503.42 0.00 398621.32 771825.47 N 32.093703 W 103.589046 4970.49 8.75 290.00 4930.00 -188.37 184.83 -507.75 0.00 398622.90 771821.13 N 32.093707 W 103.589060 Sands/Bell 5000.00 290.00 771816.91 398629.64 5100.00 8.75 290.00 5058.01 -195.24 191.57 -526.27 0.00 771802.62 N 32.093726 W 103.589120 5200 00 8 75 290.00 5156 84 -200 54 196.77 -540 56 0.00 398634 84 771788 33 N 32 093741 W 103 589166 8.75 8.75 290.00 201.98 -554.86 0.00 398640.04 771774.03 W 103.589212 5300.00 5255.68 205.85 N 32.093755 5400.00 290.00 5354.51 -211.15 207.18 -569.15 0.00 398645.24 771759.74 N 32.093770 W 103.589258 5500.00 8.75 290.00 5453.35 -216.45 212.38 -583.44 0.00 398650.45 771745.44 N 32.093784 W 103.589304 771731.15 771716.86 5700.00 8.75 290.00 5651.02 -227.06 222.79 -612.03 0.00 398660.85 N 32.093814 W 103.589396 5800 00 8 75 290.00 5749 86 -232 36 227 99 -626 33 0.00 398666 06 771702 56 N 32 093828 W 103 589442 8.75 8.75 8.75 5848.70 5947.53 -640.62 -654.91 771688.27 771673.98 5900.00 290.00 398671.26 N 32.093843 103.589488 6000.00 290.00 -242.97 238.40 0.00 398676.46 N 32.093857 W 103.589534 Cherry Canyon 6012.61 290.00 5960.00 -243.64 239.06 -656.72 0.00 398677.12 771672.17 N 32.093859 W 103.589540 6046.37 6145.20 -248.27 -253.57 243.60 248.81 0.00 771659.68 771645.39 6100.00 290.00 -669.21 398681.67 N 32.093872 W 103.589580 6200.00 8.75 290.00 -683.50 398686.87 N 32.093886 W 103.589626 6300.00 8.75 290.00 6244.04 -258.88 254.01 -697.80 0.00 398692.07 771631.09 N 32.093901 W 103.589672 6342.88 6441.71 771616.80 771602.51 6400.00 290.00 -264.18 -269.48 259.22 -712.09 -726.39 0.00 398697.28 N 32.093916 W 103.589718 W 103.589765 6500.00 8.75 8.75 290.00 0.00 N 32.093930 264.42 398702.48 6600.00 290.00 6540.55 -274.79 269.62 -740.68 0.00 398707.68 771588.21 N 32.093945 W 103.589811 6700.00 6800.00 290.00 290.00 6639.39 6738.22 -754.97 -769.27 0.00 398712.89 398718.09 771573.92 771559.63 N 32.093959 N 32.093974 W 103.589857 W 103.589903 -280.09

Control   Cont	Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S°)	Longitude (E/W°)
1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00		7000.00	8.75	290.00	6935.89	-296.00	290.44	-797.86	0.00	398728.50	771531.04	N 32.094003	W 103.589995
160	Drop 2°/100ft												
Mary Carryon   1,000		7200.00			7134.37			-820.74		398736.83			
Transport (1999)  Transport (1		7400.00	1.00	290.00	7334.05	-308.14	302.35	-830.59	2.00	398740.41	771498.31	N 32.094036	W 103.590100
Select Groups	Hold												
Property   1960	Brushy Canyon	7545.95	0.00	290.00	7480.00	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
March   Marc													
PRINCIPAL   PRINCIPAL   Color   Colo													
1900.00		8000.00	0.00	290.00	7934.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
Best Study													
BERRIADE   GOL   200.00   BERLIADE   SOUTH SET   SOU		8300.00	0.00	290.00	8234.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90		W 103.590101
Part		8500.00	0.00	290.00	8434.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	
Based Based   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   1900   19				290.00									
Remer Personal Person		8800.00	0.00	290.00	8734.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
. Segon ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (													
Professor   Prof	Canyon	9000.00	0.00	290.00	8934.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.       1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.       1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.     1.	Bone Spring												
Archer 9200.00 0.00 250.00 9154.66 -9162.29 350.00 957.00 0.00 957.00 97.7467.00 N. 20.000 97.7467.00 N. 20.0000 97.7467.00 N. 20.000 97.7467.00 N. 20.000 97.7467.00 N. 20.0000 97.7467.00 N. 20.0000 97.7467.00 N. 20.0000 97.7467.00 N. 20.000 97.7467.00 N. 20.0000 97.7467.00 N. 20.0000 97.7467.00 N. 20.000 97.7467.00 N. 20.0000 97.7467.00 N. 20.00000 97.7467.00 N. 20.0000 97.7467.00 N. 20.00000 97.7467.00 N. 20.00000 97.7467.00													
Amberin	200/10/0	9200.00	0.00	290.00	9134.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
	Avalon												
\$\begin{array}{c c c c c c c c c c c c c c c c c c c		9400.00	0.00	290.00	9334.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
988.00		9600.00	0.00	290.00	9534.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
1900.00													
Table Stand   1008655   0.00   200.00   1002406   300.29   302.50   481.00   0.00   39876265   7714979   N 2 269607   W 103.596070   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000   10071000		9900.00	0.00	290.00	9834.05	-308.29	302.50	-831.00	0.00	398740.56	771497.90	N 32.094037	W 103.590101
March   101000	1st BS Sand												
KOP, Bull of 1927 18		10100.00				-308.29	302.50						
0x4 95 Shele 10269 55 1, 28 173,60 10720-00 3-98 15 202.28 1-80.98 10.00 3897-04 77149 79 1 32.09438 M 105,50017 1040,00 12.28 173,00 10233 02 3-94.38 2.288 11 10.00 3857-05 77149 79 1 32.09438 M 105,50017 1040,00 12.28 173,00 10233 02 2-94.38 2.288 11 10.00 3857-05 77149 79 1 32.09438 M 105,50017 1040,00 12.28 173,00 10533 02 2-94.38 2.288 11 10.00 3857-05 77149 79 1 32.09439 M 105,50017 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,00 1041,0													
1930.00   2.69													
2nd BS Sand			2.68	173.60		-307.67	301.88	-830.93			771497.97	N 32.094035	
2ml BS Sand											771502.84		
107000   42.88   173.00   10595.65   -157.37   151.69   -514.08   10.00   388589.75   77154.62   N 20.085822   N 10.580005	2nd BS Sand												
1000000   C2.68   173.00   10716.29   0.02   5.58   7.98.43   10.00   398432.69   771532.46   73.001989   V103.589975   V105.589975   V105.5	2.10 20 00.10	10700.00	42.68	173.60	10595.65	-157.37	151.69	-814.08	10.00	398589.75	771514.82	N 32.093622	W 103.590050
Buils A Tum													
97100th 1102.01 78.81 173.00 177.80 10778.07 184.04 - 119.2 78.85 10.00 389318.50 77.54.25 N 32.082676 W 102.88998.50 175.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177.00 177	Build & Turn									398340.68			W 103.589965
11200 00 88,77													
Landing Penet 1534 04 99 42 175.60 1808.00 42028 425.56 -764.80 5.00 389612-53 771574.09 N 32.002934 W103.589817 11400.00 90.42 175.60 10798.52 480.08 4913.2 -742.06 0.00 387947 67 771586.3 N 32.091553 W103.589817 11700.00 90.42 175.60 10798.67 177158 68 180.00 387947 69 771586.3 N 32.091553 W103.589817 11700.00 90.42 177.16 10798.07 480.65 58.58 591.00 491.00 387947 69 771586.6 N 32.091503 W103.589817 11700.00 90.42 177.16 10798.07 480.65 580.50 190.00 387947 59 771598.6 N 32.091503 W103.589817 11700.00 90.42 178.60 10798.62 885.61 -800.76 177159 2.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.75 177159 2.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.75 177159 2.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.75 177159 2.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.72 20.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.72 20.00 387947.35 771598.6 N 32.091503 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.72 20.00 387947.35 771598.5 N 32.09150 W103.589817 11800.00 90.42 178.60 10798.62 885.61 -800.72 20.00 387947.40 0.00 387947.35 771598.55 N 32.098918 W103.589816 1200.00 90.42 178.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 1186.60 10798.71 11													
11400 00 90 42 175.60 10798 22 486.08 4-91.32 7-749.74 0.00 39794.76 771579.16 N 32.091579 V103.589827	Landing Point												
Tum 2"/100ft 1152_04 90.42 177.60 10796.64 607.81 6-513.00 -740.37 0.00 397825.09 777588.62 N 32.09159 W 103.589815 1170.00 90.42 177.16 10797.74 785.61 -750.74 -732.23 2.00 397647.35 777596.66 N 32.091503 W 103.589815 N 1170.00 90.42 177.16 10797.74 785.61 -750.74 -732.23 2.00 397647.35 777596.66 N 32.091503 W 103.589816 N 1170.00 90.42 177.95 0 10797.18 807.66 -812.79 -731.99 2.00 397625.31 777596.66 N 32.091503 W 103.589816 N 1170.00 90.42 177.95 0 10795.68 85.61 8.80.51 -731.99 2.00 397647.35 777597.45 N 32.091503 W 103.589816 N 1170.00 90.42 177.95 0 10795.16 1085.60 -80.73 -731.04 0.00 397547.38 777598.65 N 32.091503 W 103.589816 N 1170.00 90.42 177.95 0 10795.16 1085.60 -1190.72 -729.34 0.00 397647.34 777599.55 N 32.098931 W 103.589816 N 32.09150 N 32.0	Lariang Form	11400.00	90.42	175.60	10799.52	486.08	-491.32	-749.74	0.00	397946.76	771579.16	N 32.091853	W 103.589857
Held 11700.00 90.42 177.16 10796.07 686.65 690.80 7.35.45 2.00 337647.20 771593.45 N.3.2091305 W.103.5889015 11700.00 90.42 179.60 10797.18 807.66 8-12.79 7.31.90 2.00 337625.31 57.71596.66 N.3.2091305 W.103.5889017 11900.00 90.42 179.60 10796.62 885.61 890.73 7.31.45 0.00 337625.31 57.71596.95 W.103.5889017 11900.00 90.42 179.60 10796.89 986.60 -890.73 7.30.74 0.00 337447.37 771598.15 N.3.2093769 W.103.5889017 11900.00 90.42 179.60 10796.89 986.60 -890.73 7.30.74 0.00 337447.37 771598.15 N.3.2093769 W.103.5889017 11900.00 90.42 179.60 10796.31 1038.60 7.90.71 7.728.64 0.00 337447.37 771598.15 N.3.2093769 W.103.5889017 11900.00 90.42 179.60 10792.98 1385.59 7.1900.71 7.728.64 0.00 337447.40 77160.25 N.3.2093469 W.103.5889018 W.103.588	Turn 2°/100ft												
Hold 1172 05 90.42 179.60 10797.18 807.66 812.79 731.99 2.00 397625.31 771596.90 N 32.09969 W103.589807 1190.00 90.42 179.60 10796.89 896.00 980.73 7.731.45 0.00 39747.36 77159.45 N 32.090460 W103.589807 1200.00 90.42 179.60 10795.89 985.00 989.73 7.730.74 0.00 39747.37 771598.15 N 32.090460 W103.589807 1200.00 90.42 179.60 10795.16 1085.00 -1090.72 7.730.40 0.00 39747.37 771598.15 N 32.090460 W103.589807 1200.00 90.42 179.60 10795.41 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 1155.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.44 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 115794.00 11579													
1190.00 90.42 179.60 10795.89 985.60 -990.73 -730.74 0.00 39744.73 771598.15 N 32.09045 W 103.589805 12100.00 90.42 179.60 10795.16 1085.60 -1090.72 -729.34 0.00 39744.73 771598.25 N 32.090505 W 103.589805 12200.00 90.42 179.60 10793.71 1285.60 -1290.71 -722.94 0.00 39744.73 971599.25 N 32.090505 W 103.589805 12200.00 90.42 179.60 10792.99 1385.59 -1390.71 -727.94 0.00 39744.74 771600.25 N 32.09953 W 103.589805 12200.00 90.42 179.60 10792.26 1485.59 -1390.71 -727.94 0.00 39744.74 77160.25 N 32.09953 W 103.589805 12500.00 90.42 179.60 10792.26 1485.59 -1490.70 -727.24 0.00 39644.74 771601.65 N 32.09953 W 103.589805 12500.00 90.42 179.60 10792.26 1485.59 -1690.70 -725.54 0.00 39644.74 771601.25 N 32.09953 W 103.589805 12500.00 90.42 179.60 10793.85 1685.59 -1690.70 -725.54 0.00 39644.42 771603.05 N 32.09833 W 103.589805 12700.00 90.42 179.60 10793.05 1885.59 -1690.70 -725.54 0.00 39644.44 771603.65 N 32.09833 W 103.589805 12700.00 90.42 179.60 10793.05 1885.59 -1690.70 -725.54 0.00 39644.44 771603.65 N 32.09823 W 103.589805 12700.00 90.42 179.60 10793.05 1885.59 -1690.70 -725.54 0.00 39644.44 771603.65 N 32.09823 W 103.589805 12700.00 90.42 179.60 10793.05 1885.59 -1690.70 -725.54 0.00 39644.44 771603.65 N 32.09823 W 103.589805 12700.00 90.42 179.60 10793.05 1885.59 -1690.69 -725.14 0.00 39644.44 771603.65 N 32.09823 W 103.589805 12800.00 90.42 179.60 10793.55 1885.59 -1890.86 -723.33 0.00 39644.44 771603.65 N 32.09823 W 103.589805 12800.00 90.42 179.60 10793.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85 1885.59 -1890.85	Hold	11722.05	90.42	179.60	10797.18	807.66	-812.79	-731.99	2.00	397625.31	771596.90	N 32.090969	W 103.589807
12000.00 90.42 179.60 10795.16 1098.60 -11090.72 -779.04 0.00 39747.38 771599.85 N 32.099321 W 103.589806 12200.00 90.42 179.60 10792.98 1385.60 -1190.71 -727.24 0.00 39747.40 771600.25 N 32.089361 W 103.589806 12200.00 90.42 179.60 10792.98 1385.59 -1390.71 -727.24 0.00 397047.41 771600.25 N 32.089361 W 103.589806 12400.00 90.42 179.60 10792.98 1385.59 -1390.71 -727.24 0.00 396947.41 771601.65 N 32.089361 W 103.589806 12400.00 90.42 179.60 10791.53 1585.59 -1590.70 -725.54 0.00 396947.41 771601.65 N 32.089361 W 103.589806 12600.00 90.42 179.60 10790.31 1585.59 -1590.70 -725.54 0.00 396947.41 771603.66 N 32.089361 W 103.589806 12600.00 90.42 179.60 10790.07 1785.58 -1790.69 9 -725.14 0.00 396947.43 771603.6 N 32.088361 W 103.589806 12600.00 90.42 179.60 10790.07 1785.58 -1790.69 9 -725.14 0.00 396947.44 771603.6 N 32.088361 W 103.589806 12600.00 90.42 179.60 10790.07 1785.58 -1790.69 9 -725.14 0.00 396947.45 771604.6 N 32.088369 W 103.589806 12600.00 90.42 179.60 10789.35 1885.58 -1890.68 -723.73 0.00 396947.45 771604.6 N 32.088007 W 103.589806 13000.00 90.42 179.60 10789.82 1985.58 -1890.68 -723.73 0.00 396947.46 771605.66 N 32.08745 W 103.589806 13000.00 90.42 179.60 10787.89 2085.57 -2290.66 -722.33 0.00 396947.46 771605.66 N 32.08745 W 103.589806 13000.00 90.42 179.60 10786.42 1285.57 -2290.66 -720.33 0.00 396947.46 771605.66 N 32.08745 W 103.589806 13300.00 90.42 179.60 10786.42 1285.57 -2290.66 -720.33 0.00 396947.46 771605.66 N 32.08745 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2490.65 -720.33 0.00 396947.67 771605.66 N 32.086907 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2490.65 -720.33 0.00 396947.67 771605.66 N 32.086907 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2490.65 -720.33 0.00 396947.67 771605.66 N 32.086907 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2490.65 -720.33 0.00 396947.67 771605.66 N 32.086907 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2490.65 -720.33 0.00 396947.67 771605.66 N 32.086907 W 103.589806 13300.00 90.42 179.60 10784.99 2485				470.00				=======================================		00744707			141 100 50000
12200.00 90.42 179.60 10793.71 1285.60 -1290.71 -727.84 0.00 397447.40 771600.25 N 32.09866 W 103.589806 12400.00 90.42 179.60 10792.56 1485.59 -1390.71 -727.24 0.00 397647.41 771600.59 N 32.098916 W 103.589806 12500.00 90.42 179.60 10791.53 1585.59 -1590.70 -726.64 0.00 396847.41 771601.65 N 32.089106 W 103.589806 12600.00 90.42 179.60 10790.80 1685.59 -1590.70 -726.64 0.00 396847.42 771602.35 N 32.088831 W 103.589806 12600.00 90.42 179.60 10790.80 1685.59 -1590.70 -726.54 0.00 39647.43 771603.05 N 32.088556 W 103.589806 12600.00 90.42 179.60 10798.85 1885.59 -1590.69 -725.54 0.00 396647.44 771603.75 N 32.088281 W 103.589806 12600.00 90.42 179.60 10768.62 1985.59 -1590.68 -723.73 0.00 396447.45 771605.61 N 32.08732 W 103.589806 13000.00 90.42 179.60 10768.62 1985.59 -1590.68 -723.73 0.00 396447.46 771605.66 N 32.08732 W 103.589806 13000.00 90.42 179.60 10768.61 1285.7 -2590.67 -722.33 0.00 396347.46 771605.66 N 32.08732 W 103.589806 13300.00 90.42 179.60 10768.71 2 1285.7 -2590.67 -722.33 0.00 396347.46 771605.66 N 32.087122 W 103.589806 13300.00 90.42 179.60 10768.41 2285.57 -2290.66 -720.33 0.00 396447.48 771607.26 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.41 2285.57 -2290.66 -720.33 0.00 396447.48 771607.26 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.41 2285.57 -2290.66 -720.33 0.00 396447.48 771607.26 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.49 2485.56 -2490.65 -720.33 0.00 396447.48 771607.29 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.49 2485.56 -2490.65 -720.33 0.00 396447.48 771607.29 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.51 2385.57 -2390.66 -720.33 0.00 396447.48 771607.29 N 32.088607 W 103.589806 13300.00 90.42 179.60 10768.59 1285.55 -2890.65 -719.53 0.00 396447.69 77160.86 N 32.08767 N 103.589806 13300.00 90.42 179.60 10768.68 N 32.08767 N 10768.68		12000.00	90.42	179.60	10795.16	1085.60	-1090.72	-730.04	0.00	397347.38	771598.85	N 32.090205	W 103.589806
1400.00										397147.40		N 32.089656	W 103.589806
12500.00 90.42 179.60 10791.53 1585.59 -1590.70 -726.54 0.00 396847.42 771602.35 N 32.088831 W 103.589806 12700.00 90.42 179.60 10790.80 1685.59 -1590.69 -725.14 0.00 396647.45 771603.66 N 32.08555 N 91.589806 12700.00 90.42 179.60 10798.05 1785.58 -1590.68 -725.14 0.00 396647.45 771603.66 N 32.08555 N 91.589806 12900.00 90.42 179.60 10788.62 1985.58 -1590.68 -723.73 0.00 396647.45 771605.16 N 32.0897732 W 103.589806 13000.00 90.42 179.60 10787.89 2085.57 -2990.67 -723.03 0.00 396447.45 771605.16 N 32.0897732 W 103.589806 13100.00 90.42 179.60 10787.17 2185.57 -2990.67 -722.33 0.00 396447.47 771605.66 N 32.087732 W 103.589806 13200.00 90.42 179.60 10787.17 2185.57 -2990.66 -720.33 0.00 396447.47 771605.66 N 32.087732 W 103.589806 13300.00 90.42 179.60 10785.71 2385.57 -2990.66 -720.93 0.00 396447.49 771607.96 N 32.086937 W 103.589806 13300.00 90.42 179.60 10785.71 2385.57 -2390.66 -720.93 0.00 396447.49 771607.96 N 32.086632 W 103.589806 13300.00 90.42 179.60 10784.92 2485.56 -2490.65 -720.93 0.00 396447.49 771607.96 N 32.086632 W 103.589806 13500.00 90.42 179.60 10784.92 2485.56 -2490.65 -720.93 0.00 396447.49 771607.96 N 32.086632 W 103.589806 13500.00 90.42 179.60 10784.92 2485.56 -2490.65 -719.53 0.00 395447.50 771608.66 N 32.086632 W 103.589806 13500.00 90.42 179.60 10784.92 2485.56 -2490.65 -719.53 0.00 395447.50 771609.66 N 32.086632 W 103.589806 13600.00 90.42 179.60 10782.81 2785.56 -2490.65 -719.53 0.00 395447.55 771610.07 N 32.085683 W 103.589806 13800.00 90.42 179.60 10782.81 2785.56 -2490.65 -718.53 0.00 395447.55 771610.07 N 32.085683 W 103.589806 13800.00 90.42 179.60 10782.81 2785.56 -2490.65 -718.53 0.00 395447.55 771610.07 N 32.085683 W 103.589806 14000.00 90.42 179.60 10782.81 2785.56 -2490.65 -718.53 0.00 395447.55 771610.07 N 32.085683 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -390.60 -711.82 0.00 395447.55 77161.47 N 32.085683 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -390.60 -711.82 0.00 395447.55 77161.47 N 32.085683 W 103.589806 14000.00 90.42 179.60 10779.83 3855.5													
12700.00 90.42 179.60 10780.07 1785.58 -1790.69 7.25.14 0.00 396847.44 771603.76 N 32.08281 W 103.589806 12800.00 90.42 179.60 10789.35 1885.58 -1890.68 723.73 0.00 396447.45 771605.16 N 32.08732 W 103.589806 12900.00 90.42 179.60 10787.89 2085.57 -2290.67 723.03 0.00 396447.45 771605.66 N 32.08732 W 103.589806 13100.00 90.42 179.60 10787.17 2185.57 -2190.67 723.03 0.00 396447.47 771605.66 N 32.08737 W 103.589806 13200.00 90.42 179.60 10787.17 2185.57 -2290.66 7.721.63 0.00 396447.47 771608.56 N 32.08745 W 103.589806 13200.00 90.42 179.60 10785.41 2285.57 -2290.66 721.63 0.00 396447.47 771607.56 N 32.08790 W 103.589806 13300.00 90.42 179.60 10785.41 2285.57 -2290.66 720.93 0.00 396947.47 771607.56 N 32.08593 W 103.589806 13300.00 90.42 179.60 10784.59 2485.56 -2490.65 720.23 0.00 395947.50 771608.66 N 32.08593 W 103.589806 13600.00 90.42 179.60 10784.26 2585.56 -2490.65 720.23 0.00 395947.50 771608.68 N 32.08693 W 103.589806 13600.00 90.42 179.60 10782.53 2885.56 -2590.64 718.83 0.00 39547.51 771610.07 N 32.08593 W 103.589806 13600.00 90.42 179.60 10782.53 2885.56 -2590.64 718.83 0.00 39547.51 771610.07 N 32.08593 W 103.589806 13600.00 90.42 179.60 10782.53 2885.55 -2590.63 7716.72 0.00 395647.52 771610.77 N 32.08593 W 103.589806 13600.00 90.42 179.60 10782.53 2885.55 -2590.63 7716.72 0.00 395647.53 771611.47 N 32.08598 W 103.589806 13600.00 90.42 179.60 10780.53 3885.55 -3090.62 716.02 0.00 39547.55 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.93 3885.55 -3090.62 716.02 0.00 39547.55 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.93 3885.55 -3090.62 716.02 0.00 39547.55 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.03 3885.55 -3090.62 716.02 0.00 39547.55 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.03 3885.55 -3090.62 716.02 0.00 39547.56 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.43 3885.55 -3090.62 716.02 0.00 39547.56 771611.47 N 32.08598 W 103.589806 14000.00 90.42 179.60 10779.48 3885.55 -3090.62 716.02 0.00 39547.56 7716		12500.00	90.42	179.60	10791.53	1585.59	-1590.70	-726.54	0.00	396847.42	771602.35	N 32.088831	W 103.589806
12800.00 90.42 179.60 10788.35 1885.58 -1890.68 -724.44 0.00 396447.45 771604.46 N 32.088007 W 103.589806 13000.00 90.42 179.60 10787.78 9 2085.57 -2090.67 -723.33 0.00 396447.46 771605.66 N 32.087732 W 103.589806 13000.00 90.42 179.60 10787.17 2185.57 -2290.66 -721.63 0.00 396447.46 771605.66 N 32.087182 W 103.589806 13200.00 90.42 179.60 10786.44 2285.57 -2290.66 -721.63 0.00 396447.48 771607.26 N 32.086607 W 103.589806 13300.00 90.42 179.60 10788.57 2385.57 -2290.66 -720.93 0.00 396047.49 771607.26 N 32.086607 W 103.589806 13300.00 90.42 179.60 10788.57 2385.57 -2290.66 -720.93 0.00 396047.49 771607.56 N 32.086632 W 103.589806 13300.00 90.42 179.60 10784.99 2485.56 -2590.65 -720.23 0.00 395947.50 771609.66 N 32.086635 W 103.589806 13500.00 90.42 179.60 10784.26 2585.56 -2590.65 -719.53 0.00 395947.50 771609.36 N 32.086636 N 32.0866													
13000.00 90.42 179.60 10787.89 2085.57 -2090.67 -723.03 0.00 396347.46 771605.66 N 32.087487 W 103.589806 13200.00 90.42 179.60 10787.17 2185.57 -2290.66 -721.63 0.00 396147.48 771607.26 N 32.0816907 W 103.589806 13200.00 90.42 179.60 10785.71 2385.57 -2290.66 -720.33 0.00 396147.48 771607.26 N 32.086907 W 103.589806 13400.00 90.42 179.60 10784.26 2885.56 -2490.65 -720.23 0.00 395347.50 771608.66 N 32.086907 W 103.589806 13500.00 90.42 179.60 10784.26 2585.56 -2590.65 -719.53 0.00 395347.50 771608.66 N 32.086302 W 103.589806 13500.00 90.42 179.60 10782.53 2885.56 -2590.65 -719.53 0.00 395347.50 771600.66 N 32.086303 W 103.589806 13500.00 90.42 179.60 10782.81 2785.56 -2590.64 -718.83 0.00 395747.51 771610.07 N 32.08508 W 103.589806 13700.00 90.42 179.60 10782.81 2785.56 -2590.64 -718.83 0.00 395747.51 771610.07 N 32.08508 W 103.589806 13700.00 90.42 179.60 10782.81 2785.56 -2590.63 -717.43 0.00 395647.52 771610.77 N 32.085533 W 103.589806 13900.00 90.42 179.60 10782.81 2785.56 -2590.63 -717.43 0.00 395647.52 771610.77 N 32.085533 W 103.589806 13900.00 90.42 179.60 10781.35 2985.55 -2590.63 -716.72 0.00 395447.54 77161.21 N 32.08528 W 103.589806 14000.00 90.42 179.60 10781.35 2985.55 -2590.63 -716.72 0.00 395447.54 771612.17 N 32.08528 W 103.589806 14000.00 90.42 179.60 10780.44 3385.54 -3390.61 -713.92 0.00 395447.55 77161.47 N 32.08433 W 103.589806 14000.00 90.42 179.60 10778.90 3185.55 -390.62 -716.02 0.00 395447.55 77161.37 N 32.08438 W 103.589806 14000.00 90.42 179.60 10778.44 3385.54 -3390.61 -713.92 0.00 395447.55 77161.47 N 32.08438 W 103.589806 14000.00 90.42 179.60 10778.44 3385.54 -3390.61 -713.92 0.00 395447.55 77161.47 N 32.08438 W 103.589806 14000.00 90.42 179.60 10776.26 3685.33 -3690.59 -711.22 0.00 395447.55 77161.47 N 32.08438 W 103.589806 14000.00 90.42 179.60 10776.26 3685.33 -3690.59 -711.22 0.00 39447.60 77161.27 N 32.08388 W 103.589806 14000.00 90.42 179.60 10776.26 3685.53 -3690.65 -710.61 0.00 39447.60 77161.88 N 32.083509 W 103.589806 14000.00 90.42 179.60 10776.26 3685.53 -3690.65 -706		12800.00	90.42	179.60	10789.35	1885.58	-1890.68	-724.44	0.00	396547.45	771604.46	N 32.088007	W 103.589806
13200.00   90.42   179.60   10786.44   2285.57   -2290.66   -721.63   0.00   396147.48   771607.26   N 32.086907   W 103.589806   13300.00   90.42   179.60   10784.99   2485.56   -2490.65   -720.23   0.00   395947.50   771608.66   N 32.086357   W 103.589806   13500.00   90.42   179.60   10784.99   2485.56   -2490.65   -720.23   0.00   395947.50   771608.66   N 32.086357   W 103.589806   13600.00   90.42   179.60   10783.53   2685.56   -2590.65   -719.53   0.00   39547.51   771610.07   N 32.085083   W 103.589806   13700.00   90.42   179.60   10782.81   2785.56   -2790.64   -718.13   0.00   395547.51   771610.07   N 32.085538   W 103.589806   13800.00   90.42   179.60   10782.81   2785.56   -2790.64   -718.13   0.00   395547.53   771611.47   N 32.085538   W 103.589806   13900.00   90.42   179.60   10781.35   2985.55   -2390.63   -716.72   0.00   395447.54   771612.17   N 32.085588   W 103.589806   14000.00   90.42   179.60   107781.35   2985.55   -2390.63   -716.72   0.00   395447.55   771612.77   N 32.084983   W 103.589806   14000.00   90.42   179.60   10779.00   3185.55   -3390.62   -716.02   0.00   395447.55   771612.77   N 32.084408   W 103.589806   14000.00   90.42   179.60   10779.90   3185.55   -3390.62   -716.02   0.00   395447.55   771612.47   N 32.084408   W 103.589806   14000.00   90.42   179.60   10778.44   3385.54   -3390.61   -713.92   0.00   39547.55   771614.27   N 32.084438   W 103.589806   14000.00   90.42   179.60   10778.44   3385.54   -3390.61   -713.92   0.00   39547.55   771614.67   N 32.08384   W 103.589806   14000.00   90.42   179.60   10777.20   3485.54   -3390.61   -713.92   0.00   39547.55   771614.67   N 32.08389   W 103.589806   14000.00   90.42   179.60   10778.44   3385.54   -3390.61   -713.92   0.00   39547.55   771614.67   N 32.08389   W 103.589806   14000.00   90.42   179.60   10776.26   3685.53   -3790.59   -711.82   0.00   39447.50   771616.37   N 32.08389   W 103.589806   14000.00   90.42   179.60   10776.26   3685.53   -3790.59   -711.82   0.00   39447.50   771616.37   N 3		13000.00				2085.57	-2090.67					N 32.087457	W 103.589806
13300.00													
13500.00 90.42 179.60 10784.26 2585.56 -2590.65 -719.53 0.00 39547.51 771610.37 N 32.085808 W 103.589806 13700.00 90.42 179.60 10782.81 2785.56 -2790.64 -718.13 0.00 39547.51 771610.07 N 32.085533 W 103.589806 13700.00 90.42 179.60 10782.81 2785.56 -2290.63 -711.43 0.00 39547.52 771610.77 N 32.085533 W 103.589806 13900.00 90.42 179.60 10782.08 2885.55 -2890.63 -711.743 0.00 39547.53 771611.47 N 32.085288 W 103.589806 14000.00 90.42 179.60 10780.63 3085.55 -2990.63 -716.72 0.00 39547.54 771612.17 N 32.08478 W 103.589806 14000.00 90.42 179.60 10780.63 3085.55 -3090.62 -716.02 0.00 39547.55 771612.87 N 32.08498 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -3190.62 -716.02 0.00 39547.55 771612.87 N 32.084708 W 103.589806 14200.00 90.42 179.60 10779.90 3185.55 -3190.62 -716.02 0.00 39547.55 771612.87 N 32.084708 W 103.589806 14200.00 90.42 179.60 10779.91 3285.54 -3290.61 -714.62 0.00 39547.55 771614.27 N 32.084158 W 103.589806 14200.00 90.42 179.60 10779.17 3285.54 -3290.61 -714.62 0.00 39547.55 771614.97 N 32.084158 W 103.589806 14400.00 90.42 179.60 10777.72 3485.54 -3290.61 -714.62 0.00 39547.55 771614.97 N 32.084158 W 103.589806 14400.00 90.42 179.60 10776.99 3585.54 -3390.61 -712.52 0.00 394947.58 771615.67 N 32.083844 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3990.60 -712.52 0.00 394947.58 771615.67 N 32.083334 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3990.59 -711.12 0.00 39447.60 771617.08 N 32.08309 W 103.589806 14700.00 90.42 179.60 10776.26 3685.53 -3990.59 -711.12 0.00 39447.60 771617.8 N 32.08269 W 103.589805 14900.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 39447.60 771617.8 N 32.08269 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 39447.60 771617.8 N 32.08269 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 39447.65 771619.18 N 32.08269 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 39447.65 771619.18 N 32.08260 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.61 0.00 39		13300.00	90.42	179.60	10785.71	2385.57	-2390.66	-720.93	0.00	396047.49	771607.96	N 32.086632	W 103.589806
13600.00 90.42 179.60 10783.53 2685.56 -2690.64 -718.83 0.00 395747.51 771610.07 N 32.085808 W 103.589806 13700.00 90.42 179.60 10782.08 2885.55 -2690.63 -717.43 0.00 395547.53 771611.47 N 32.085533 W 103.589806 13800.00 90.42 179.60 10781.35 2985.55 -2690.63 -716.72 0.00 395547.53 771611.47 N 32.085286 W 103.589806 14000.00 90.42 179.60 10781.35 2985.55 -2690.63 -716.72 0.00 395547.55 771612.17 N 32.084983 W 103.589806 14000.00 90.42 179.60 10780.63 3085.55 -3090.62 -716.02 0.00 395347.55 771612.87 N 32.084983 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -3190.62 -716.32 0.00 395347.55 771613.57 N 32.084433 W 103.589806 1400.00 90.42 179.60 10779.91 3285.54 -3290.61 -714.62 0.00 395347.55 771614.27 N 32.084433 W 103.589806 1400.00 90.42 179.60 10778.44 3385.54 -3290.61 -714.62 0.00 395347.55 771614.27 N 32.08458 W 103.589806 1400.00 90.42 179.60 10777.72 3485.54 -3290.61 -714.62 0.00 395347.55 771614.27 N 32.08458 W 103.589806 1400.00 90.42 179.60 10776.99 3855.54 -3390.61 -713.22 0.00 395347.55 771614.67 N 32.083609 W 103.589806 1400.00 90.42 179.60 10776.99 3855.54 -3490.60 -713.22 0.00 394947.58 771615.67 N 32.083609 W 103.589806 1400.00 90.42 179.60 10776.99 3855.54 -3690.60 -712.52 0.00 394947.58 771616.37 N 32.083609 W 103.589806 1400.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 39447.60 771617.08 N 32.083609 W 103.589806 1400.00 90.42 179.60 10776.26 3685.53 -3790.59 -711.82 0.00 39447.60 771617.08 N 32.083264 W 103.589806 1400.00 90.42 179.60 10774.08 3985.52 -3990.58 -710.42 0.00 39447.60 771617.08 N 32.083274 W 103.589805 1400.00 90.42 179.60 10774.08 3985.52 -4990.57 -709.01 0.00 39447.60 771617.08 N 32.083284 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -4990.57 -709.01 0.00 39447.60 771617.08 N 32.081274 W 103.589805 1500.00 90.42 179.60 10774.08 3985.52 -4990.57 -709.01 0.00 39447.65 771619.88 N 32.081274 W 103.589805 1500.00 90.42 179.60 10771.08 4285.52 -490.57 -709.01 0.00 39447.65 77161.81 N 32.081410 W 103.589805 1500.00 90.42 179.60 10771.08 4285.51 -490.55 -706.21 0.													
13800.00 90.42 179.60 10782.08 2885.55 -2890.63 -717.43 0.00 395547.53 771611.47 N 32.085288 W 103.589806 13900.00 90.42 179.60 10780.63 3085.55 -2990.63 -716.72 0.00 395547.55 771612.17 N 32.084983 W 103.589806 14000.00 90.42 179.60 10780.63 3085.55 -3090.62 -716.02 0.00 395547.55 771612.87 N 32.084983 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -3190.62 -715.32 0.00 395547.55 771613.57 N 32.08433 W 103.589806 14000.00 90.42 179.60 10779.17 3285.54 -3290.61 -714.62 0.00 39547.55 771614.97 N 32.084384 W 103.589806 14000.00 90.42 179.60 10777.72 3485.54 -3290.61 -713.22 0.00 39547.56 771614.97 N 32.083884 W 103.589806 14000.00 90.42 179.60 10777.72 3485.54 -3490.60 -713.22 0.00 39547.58 771616.77 N 32.083889 W 103.589806 14000.00 90.42 179.60 10776.69 3685.54 -390.60 -713.22 0.00 394947.58 771616.67 N 32.083809 W 103.589806 14000.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394947.50 771617.08 N 32.083809 W 103.589806 14000.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394947.60 771617.78 N 32.083809 W 103.589806 14000.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394947.60 771617.78 N 32.083809 W 103.589806 14000.00 90.42 179.60 10774.81 3885.55 -3990.58 -710.42 0.00 394547.61 771618.48 N 32.082784 W 103.589805 14000.00 90.42 179.60 10774.08 3985.52 -3990.58 -710.42 0.00 394547.61 771618.48 N 32.082294 W 103.589805 15000.00 90.42 179.60 10774.08 3985.52 -3990.58 -710.42 0.00 394547.61 771618.48 N 32.082294 W 103.589805 15000.00 90.42 179.60 10774.08 3985.52 -4990.57 -709.71 0.00 394447.62 771619.18 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.63 4485.51 -4590.55 -706.21 0.00 39447.65 771621.28 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.18 4385.51 -4390.56 -706.21 0.00 39447.65 771621.88 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.84 4385.51 -4590.55 -706.21 0.00 39447.65 771621.88 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.86 4485.51 -4590.55 -706.21 0.00 393476.67 771622.68 N 32.081685 W 103.589805 15000.00 90.42 179.60 10776.95 4485.51 -		13600.00	90.42	179.60	10783.53	2685.56	-2690.64	-718.83	0.00	395747.51	771610.07	N 32.085808	W 103.589806
13900.00 90.42 179.60 10781.35 2985.55 -2990.63 -716.72 0.00 395447.54 771612.17 N 32.084983 W 103.589806 14000.00 90.42 179.60 10779.90 3185.55 -3090.62 -716.02 0.00 395247.55 771612.87 N 32.084708 W 103.589806 1400.00 90.42 179.60 10779.91 3285.54 -3290.61 -714.62 0.00 395247.55 771613.57 N 32.084308 W 103.589806 14200.00 90.42 179.60 10779.17 3285.54 -3290.61 -714.62 0.00 395147.56 771614.27 N 32.084308 W 103.589806 14300.00 90.42 179.60 107778.44 3385.54 -3390.61 -713.22 0.00 395047.57 771614.97 N 32.083408 W 103.589806 14400.00 90.42 179.60 10777.2 3485.54 -3490.60 -713.22 0.00 39547.58 771615.67 N 32.083408 W 103.589806 14500.00 90.42 179.60 10776.99 3585.54 -3590.60 -712.52 0.00 39447.58 771616.37 N 32.083609 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394747.60 771617.08 N 32.083834 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394747.60 771617.08 N 32.083609 W 103.589806 14600.00 90.42 179.60 10776.26 3785.53 -3790.59 -711.12 0.00 39467.60 771617.08 N 32.083609 W 103.589806 14600.00 90.42 179.60 10774.81 3885.53 -3790.59 -711.12 0.00 39467.60 771617.08 N 32.082784 W 103.589805 14900.00 90.42 179.60 10774.81 3885.53 -3790.59 -711.12 0.00 39467.60 771617.08 N 32.082784 W 103.589805 14900.00 90.42 179.60 10774.08 3985.52 -3990.58 -710.91 0.00 39447.62 771618.48 N 32.08209 W 103.589805 15000.00 90.42 179.60 10772.63 4885.52 -4990.57 -709.11 0.00 39447.65 771619.88 N 32.08209 W 103.589805 15000.00 90.42 179.60 10772.63 4885.51 -490.55 -709.71 0.00 39447.65 771619.88 N 32.08160 W 103.589805 15000.00 90.42 179.60 10771.18 485.51 -490.55 -709.51 0.00 39447.65 771621.28 N 32.08160 W 103.589805 15000.00 90.42 179.60 10771.84 485.51 -490.55 -706.21 0.00 39447.65 771621.28 N 32.08160 W 103.589805 15000.00 90.42 179.60 10771.86 485.51 -490.55 -706.21 0.00 39447.65 771621.88 N 32.08160 W 103.589805 15000.00 90.42 179.60 10771.86 485.51 -490.55 -706.21 0.00 39447.65 771621.88 N 32.08160 W 103.589805 15000.00 90.42 179.60 1076.89 4685.51 -490.55 -706.21 0.00 39		13800.00	90.42	179.60	10782.08	2885.55	-2890.63	-717.43	0.00	395547.53	771611.47	N 32.085258	W 103.589806
14100.00 90.42 179.60 10779.90 3185.55 -3190.62 -715.32 0.00 395247.55 771613.57 N 32.084433 W 103.589806 14200.00 90.42 179.60 10778.44 3385.54 -3290.61 -714.62 0.00 395047.55 771614.27 N 32.084158 W 103.589806 14300.00 90.42 179.60 10777.72 3455.54 -3490.60 -713.22 0.00 395047.57 771614.27 N 32.083609 W 103.589806 14500.00 90.42 179.60 10776.99 3585.54 -3490.60 -713.22 0.00 394947.58 771615.67 N 32.083860 W 103.589806 14500.00 90.42 179.60 10776.99 3585.54 -3490.60 -712.52 0.00 394947.58 771615.67 N 32.083369 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 39447.60 771617.08 N 32.083369 W 103.589806 14700.00 90.42 179.60 10775.54 3785.53 -3790.59 -711.12 0.00 394547.60 771617.78 N 32.083369 W 103.589806 14600.00 90.42 179.60 10774.81 3885.53 -3790.59 -711.12 0.00 394547.60 771617.78 N 32.083269 W 103.589805 14900.00 90.42 179.60 10774.81 3885.53 -3990.58 -710.42 0.00 394547.60 771617.78 N 32.082274 W 103.589805 15000.00 90.42 179.60 10773.36 4085.52 -4990.57 -709.11 0.00 394547.61 771618.48 N 32.082294 W 103.589805 15000.00 90.42 179.60 10773.36 4085.52 -4990.57 -709.11 0.00 394547.61 771619.8 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.63 4085.52 -490.57 -709.11 0.00 394547.65 771619.88 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.63 4085.52 -490.57 -709.11 0.00 394547.65 771619.88 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.00 4285.52 -490.57 -709.51 0.00 394547.65 771619.88 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.18 4385.51 -4390.56 -706.91 0.00 39447.65 771621.28 N 32.081685 W 103.589805 15000.00 90.42 179.60 10771.18 4385.51 -4590.55 -706.21 0.00 39347.66 771622.68 N 32.081685 W 103.589805 15000.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.00 39347.66 771622.68 N 32.081685 W 103.589805 15000.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.00 393476.67 771622.68 N 32.081685 W 103.589805 15000.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.00 393747.66 771622.68 N 32.081685 W 103.589805 15000.00 90.42 179.60 1076.89 4585.51 -4590		13900.00	90.42	179.60	10781.35	2985.55	-2990.63	-716.72		395447.54	771612.17		W 103.589806
14300.00 90.42 179.60 10778.44 3385.54 -3390.61 -713.92 0.00 395047.57 771614.97 N 32.083884 W 103.589806 14400.00 90.42 179.60 10776.99 3585.54 -3490.60 -713.22 0.00 394947.58 771615.67 N 32.083609 W 103.589806 14500.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 39447.60 771617.08 N 32.083059 W 103.589806 14700.00 90.42 179.60 10775.54 3785.53 -3790.59 -7111.22 0.00 394747.60 771617.08 N 32.083059 W 103.589806 14700.00 90.42 179.60 10775.54 3785.53 -3790.59 -7111.2 0.00 394547.61 771617.88 N 32.082509 W 103.589805 14800.00 90.42 179.60 10774.81 3685.53 -3890.58 -710.42 0.00 394547.61 771618.48 N 32.082509 W 103.589805 14900.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 394547.61 771618.48 N 32.082509 W 103.589805 15000.00 90.42 179.60 10773.36 4085.52 -4990.57 -709.11 0.00 394447.62 771619.18 N 32.082234 W 103.589805 15100.00 90.42 179.60 10772.63 4185.52 -4190.57 -709.11 0.00 394447.62 771619.8 N 32.081685 W 103.589805 15200.00 90.42 179.60 10771.90 4285.52 -4190.57 -708.31 0.00 39447.64 771620.58 N 32.081685 W 103.589805 15300.00 90.42 179.60 10771.18 4385.51 -4390.56 -707.61 0.00 39447.65 771621.28 N 32.081685 W 103.589805 15300.00 90.42 179.60 10771.18 4385.51 -4390.55 -706.21 0.00 39447.65 771621.28 N 32.081685 W 103.589805 15500.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.67 771621.38 N 32.081685 W 103.589805 15500.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.67 771622.68 N 32.081685 W 103.589805 15500.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.67 771624.08 N 32.081685 W 103.589805 15500.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.67 771622.68 N 32.081685 W 103.589805 15500.00 90.42 179.60 10768.99 4585.51 -4590.55 -705.51 0.00 393947.68 771624.09 N 32.080585 W 103.589805 15500.00 90.42 179.60 10768.99 4685.51 -4590.55 -705.51 0.00 393947.68 771624.09 N 32.080585 W 103.589805 15500.00 90.42 179.60 10768.99 4685.51 -4590.55 -705.51 0.00 393947.68 771624.09 N 32.080585 W 103.589805 15500.00 90.42 179.60 10768.99 4685.		14100.00	90.42	179.60	10779.90	3185.55	-3190.62	-715.32	0.00	395247.55	771613.57	N 32.084433	W 103.589806
14400.00 90.42 179.60 10777.72 3485.54 -3490.60 -713.22 0.00 394947.58 771615.67 N 32.083609 W 103.589806 14500.00 90.42 179.60 10776.26 3585.54 -3590.60 -712.52 0.00 39487.59 771616.37 N 32.083334 W 103.589806 14600.00 90.42 179.60 10776.26 3685.53 -3690.59 -711.82 0.00 394747.60 771617.08 N 32.082076 W 103.589806 14700.00 90.42 179.60 10777.81 3885.53 -3790.59 -711.12 0.00 394647.60 771617.78 N 32.082784 W 103.589805 14800.00 90.42 179.60 10774.81 3885.53 -3890.58 -710.42 0.00 394647.61 771618.48 N 32.0822784 W 103.589805 14900.00 90.42 179.60 10774.08 3985.52 -3990.58 -709.71 0.00 394447.62 771618.48 N 32.082234 W 103.589805 15000.00 90.42 179.60 10772.63 4085.52 -4090.57 -709.01 0.00 394447.62 771619.88 N 32.082208 W 103.589805 15100.00 90.42 179.60 10772.63 4085.52 -4090.57 -709.01 0.00 394447.65 771621.88 N 32.08205 W 103.589805 15300.00 90.42 179.60 10772.63 4085.52 -4190.57 -708.31 0.00 394247.64 771620.58 N 32.08160 W 103.589805 15300.00 90.42 179.60 10771.10 4285.52 -4190.57 -708.31 0.00 394247.64 771620.58 N 32.08160 W 103.589805 15300.00 90.42 179.60 10771.10 4285.52 -4290.56 -707.61 0.00 39447.65 771621.28 N 32.081410 W 103.589805 15300.00 90.42 179.60 10771.18 4385.51 -4390.56 -706.21 0.00 39447.65 771621.28 N 32.08160 W 103.589805 15500.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 39447.65 771621.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4490.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4490.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4490.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4490.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.00 39347.68 771622.68 N 32.08160 W 103.589805 15500.00 90.42 179.60 1076.89 4585.51 -4590.55 -706.21 0.0													
14600.00       90.42       179.60       10776.26       3685.53       -3690.59       -711.82       0.00       394747.60       771617.08       N 32.082784       W 103.589806         14700.00       90.42       179.60       10775.54       3785.53       -3790.59       -711.12       0.00       394547.60       771617.78       N 32.082784       W 103.589805         14800.00       90.42       179.60       10774.08       3985.52       -3990.58       -709.71       0.00       394447.62       771619.18       N 32.082294       W 103.589805         15000.00       90.42       179.60       10773.36       4085.52       -4990.57       -709.71       0.00       394447.62       771619.18       N 32.081294       W 103.589805         15100.00       90.42       179.60       10772.63       4185.52       -4190.57       -708.31       0.00       394247.64       771620.58       N 32.081685       W 103.589805         15200.00       90.42       179.60       10771.19       4285.52       -4290.56       -707.61       0.00       394247.64       771620.58       N 32.081685       W 103.589805         15300.00       90.42       179.60       10771.19       4285.51       -4390.56       -706.21       0.00       3944		14400.00	90.42	179.60	10777.72	3485.54	-3490.60	-713.22	0.00	394947.58	771615.67	N 32.083609	W 103.589806
14700.00   90.42   179.60   10775.54   3785.53   3790.59   7711.12   0.00   394647.60   771617.78   N 32.082274   W 103.589805   14900.00   90.42   179.60   10774.81   3885.53   3.990.58   7.704.2   0.00   394547.61   771618.48   N 32.082234   W 103.589805   14900.00   90.42   179.60   10773.36   4085.52   4.990.57   7.09.01   0.00   394347.62   771619.18   N 32.082234   W 103.589805   15100.00   90.42   179.60   10772.63   4085.52   4.990.57   7.09.01   0.00   394347.63   771619.88   N 32.081960   W 103.589805   15200.00   90.42   179.60   10771.90   4285.52   4.490.57   7.08.31   0.00   394247.64   771620.58   N 32.081960   W 103.589805   15300.00   90.42   179.60   10771.19   4285.52   4.290.56   707.61   0.00   394147.65   771621.28   N 32.081410   W 103.589805   15300.00   90.42   179.60   10770.45   4885.51   4.490.55   7.06.21   0.00   394047.65   771621.98   N 32.081680   W 103.589805   15500.00   90.42   179.60   10770.45   4485.51   4490.55   7.06.21   0.00   393947.66   771622.68   N 32.080660   W 103.589805   15500.00   90.42   179.60   10768.99   4585.51   4590.55   7.05.51   0.00   39347.68   771622.38   N 32.080685   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.05.51   0.00   39347.68   771622.38   N 32.080685   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.05.51   0.00   39347.68   771622.38   N 32.080685   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.05.51   0.00   39347.68   771624.09   N 32.080365   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.06.21   0.00   39347.68   771624.09   N 32.080365   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.06.21   0.00   39347.68   771624.09   N 32.080365   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.06.21   0.00   39347.68   771624.09   N 32.080365   W 103.589805   15600.00   90.42   179.60   10768.99   4585.51   4590.55   7.06.21   0.00   39347.68   771624.09   N 32.080365		14600.00	90.42	179.60		3685.53	-3690.59	-711.82	0.00	394747.60		N 32.083059	
14900.00       90.42       179.60       10774.08       3985.52       -3990.58       -709.71       0.00       394447.62       771619.18       N 32.082234       W 103.589805         15000.00       90.42       179.60       10772.63       4085.52       -4090.57       -709.01       0.00       394247.63       771619.88       N 32.081685       W 103.589805         15200.00       90.42       179.60       10771.90       4285.52       -490.57       -708.31       0.00       394247.64       771621.98       N 32.081685       W 103.589805         15300.00       90.42       179.60       10771.19       4285.52       -4290.56       -707.61       0.00       394147.65       771621.28       N 32.081685       W 103.589805         15300.00       90.42       179.60       10771.18       4885.51       -4390.56       -706.21       0.00       394047.65       771621.98       N 32.081680       W 103.589805         15400.00       90.42       179.60       10770.45       4485.51       -490.55       -706.21       0.00       393947.66       771622.68       N 32.080660       W 103.589805         15500.00       90.42       179.60       10768.79       4585.51       -4590.55       -705.51       0.00       393947		14700.00	90.42	179.60	10775.54	3785.53	-3790.59	-711.12	0.00	394647.60	771617.78	N 32.082784	W 103.589805
15100.00 90.42 179.60 10772.63 4185.52 -4190.57 -708.31 0.00 394247.64 771620.58 N 32.081685 W 103.589805 15200.00 90.42 179.60 10771.18 4285.52 -4290.56 -707.61 0.00 394147.65 771621.28 N 32.081410 W 103.589805 15300.00 90.42 179.60 10771.18 4385.51 -4390.56 -706.91 0.00 394047.65 771621.98 N 32.081410 W 103.589805 15400.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.65 771622.68 N 32.080860 W 103.589805 15500.00 90.42 179.60 10769.72 4585.51 -4590.55 -705.51 0.00 393947.67 771623.38 N 32.080865 W 103.589805 15600.00 90.42 179.60 10768.99 4685.51 -4590.55 -705.51 0.00 393747.68 771624.09 N 32.080368 W 103.589805 15600.00 90.42 179.60 10768.99 4685.51 -4690.54 -704.81 0.00 393747.68 771624.09 N 32.080310 W 103.589805		14900.00	90.42	179.60	10774.08	3985.52	-3990.58	-709.71	0.00	394447.62	771619.18	N 32.082234	W 103.589805
15200.00 90.42 179.60 10771.90 4285.52 -4290.56 -707.61 0.00 394147.65 771621.28 N 32.081410 W 103.589805 15300.00 90.42 179.60 10771.18 4385.51 -4390.56 -706.91 0.00 394047.65 771621.98 N 32.081435 W 103.589805 15400.00 90.42 179.60 10769.72 4585.51 -4590.55 -706.21 0.00 393947.66 771622.68 N 32.080660 W 103.589805 15500.00 90.42 179.60 10769.72 4585.51 -4590.55 -705.51 0.00 393847.67 771623.38 N 32.080585 W 103.589805 15600.00 90.42 179.60 10768.99 4585.51 -4590.55 -705.51 0.00 393747.68 771624.09 N 32.080170 N 32.													
15400.00 90.42 179.60 10770.45 4485.51 -4490.55 -706.21 0.00 393947.66 771622.68 N 3.2 080860 W 103.589805 15500.00 90.42 179.60 10769.72 4585.51 -4590.55 -705.51 0.00 393747.67 771623.38 N 3.2 080860 W 103.589805 15600.00 90.42 179.60 10768.99 4685.51 -4690.54 -704.81 0.00 393747.68 771624.09 N 3.2 080310 W 103.589805		15200.00	90.42	179.60	10771.90	4285.52	-4290.56	-707.61	0.00	394147.65	771621.28	N 32.081410	W 103.589805
15500.00 90.42 179.60 10769.72 4585.51 -4590.55 -705.51 0.00 393847.67 771623.38 N 32.080585 W 103.589805 15600.00 90.42 179.60 10768.99 4685.51 -4690.54 -704.81 0.00 393747.68 771624.09 N 32.080310 W 103.589805													
		15500.00	90.42	179.60	10769.72	4585.51	-4590.55	-705.51	0.00	393847.67	771623.38	N 32.080585	W 103.589805

Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
Section 32-5 Line Cross	15786.77	90.42	179.60	10767.64	4872.27	-4877.30	-703.50	0.00	393560.93	771625.39	N 32.079797	W 103.589805
2.110 0.1000	15800.00	90.42	179.60	10767.54	4885.50	-4890.53	-703.41	0.00	393547.69	771625.49	N 32.079761	W 103.589805
	15900.00	90.42	179.60	10766.81	4985.50	-4990.53	-702.70	0.00	393447.70	771626.19	N 32.079486	W 103.589805
	16000.00	90.42	179.60	10766.09	5085.50	-5090.52	-702.00	0.00	393347.71	771626.89		W 103.589805
	16100.00	90.42	179.60	10765.36	5185.49	-5190.52	-701.30	0.00	393247.72	771627.59	N 32.078936	W 103.589805
	16200.00	90.42	179.60	10764.63	5285.49	-5290.51	-700.60	0.00	393147.73	771628.29		W 103.589805
	16300.00	90.42	179.60	10763.91	5385.49	-5390.51	-699.90	0.00	393047.74	771628.99		W 103.589805
	16400.00	90.42	179.60	10763.18	5485.48	-5490.50	-699.20	0.00	392947.74	771629.69		W 103.589805
	16500.00	90.42	179.60	10762.45	5585.48	-5590.49	-698.50	0.00	392847.75	771630.39	N 32.077837	W 103.589805
	16600.00	90.42	179.60	10761.73	5685.48	-5690.49	-697.80	0.00	392747.76	771631.10		
	16700.00	90.42	179.60	10761.00	5785.48	-5790.48	-697.10	0.00	392647.77	771631.80	N 32.077287	W 103.589805
	16800.00	90.42	179.60	10760.27	5885.47	-5890.48	-696.40	0.00	392547.78	771632.50		W 103.589805
	16900.00 17000.00	90.42	179.60	10759.55	5985.47	-5990.47	-695.69	0.00 0.00	392447.79	771633.20		W 103.589805 W 103.589805
	17100.00	90.42 90.42	179.60 179.60	10758.82 10758.09	6085.47 6185.47	-6090.47 -6190.46	-694.99 -694.29	0.00	392347.79 392247.80	771633.90 771634.60		W 103.589805 W 103.589805
	17200.00	90.42	179.60	10757.36	6285.46	-6290.46	-693.59	0.00	392147.81	771635.30	N 32.075913	W 103.589805 W 103.589805
	17300.00	90.42	179.60	10756.64	6385.46	-6390.45	-692.89	0.00	392047.82	771636.00		W 103.589804
	17400.00	90.42	179.60	10755.91	6485.46	-6490.45	-692.19	0.00	391947.83	771636.70	N 32.075363	W 103.589804 W 103.589804
	17500.00	90.42	179.60	10755.18	6585.46	-6590.44	-691.49	0.00	391847.84	771637.40		W 103.589804 W 103.589804
	17600.00	90.42	179.60	10754.46	6685.45	-6690.44	-690.79	0.00	391747.84	771638.10		W 103.589804
	17700.00	90.42	179.60	10753.73	6785.45	-6790.43	-690.09	0.00	391647.85	771638.81	N 32.074538	W 103.589804
	17800.00	90.42	179.60	10753.00	6885.45	-6890.43	-689.38	0.00	391547.86	771639.51	N 32.074263	W 103.589804
	17900.00	90.42	179.60	10752.28	6985.45	-6990.42	-688.68	0.00	391447.87	771640.21	N 32.073988	W 103.589804
	18000.00	90.42	179.60	10751.55	7085.44	-7090.42	-687.98	0.00	391347.88	771640.91		W 103.589804
	18100.00	90.42	179.60	10750.82	7185.44	-7190.41	-687.28	0.00	391247.89	771641.61	N 32.073439	W 103.589804
	18200.00	90.42	179.60	10750.10	7285.44	-7290.41	-686.58	0.00	391147.89	771642.31	N 32.073164	W 103.589804
	18300.00	90.42	179.60	10749.37	7385.43	-7390.40	-685.88	0.00	391047.90	771643.01	N 32.072889	W 103.589804
	18400.00	90.42	179.60	10748.64	7485.43	-7490.40	-685.18	0.00	390947.91	771643.71	N 32.072614	W 103.589804
	18500.00	90.42	179.60	10747.91	7585.43	-7590.39	-684.48	0.00	390847.92	771644.41	N 32.072339	W 103.589804
	18600.00	90.42	179.60	10747.19	7685.43	-7690.39	-683.78	0.00	390747.93	771645.11	N 32.072064	W 103.589804
	18700.00	90.42	179.60	10746.46	7785.42	-7790.38	-683.08	0.00	390647.94	771645.82	N 32.071790	W 103.589804
	18800.00	90.42	179.60	10745.73	7885.42	-7890.38	-682.37	0.00	390547.94	771646.52		
	18900.00	90.42	179.60	10745.01	7985.42	-7990.37	-681.67	0.00	390447.95	771647.22		W 103.589804
	19000.00	90.42	179.60	10744.28	8085.42	-8090.37	-680.97	0.00	390347.96	771647.92		
	19100.00	90.42	179.60	10743.55	8185.41	-8190.36	-680.27	0.00	390247.97	771648.62		W 103.589804
	19200.00	90.42	179.60	10742.83	8285.41	-8290.36	-679.57	0.00	390147.98	771649.32		W 103.589804
	19300.00	90.42	179.60	10742.10	8385.41	-8390.35	-678.87	0.00	390047.98	771650.02		W 103.589804
	19400.00	90.42	179.60	10741.37	8485.41	-8490.35	-678.17	0.00	389947.99	771650.72	N 32.069866	W 103.589804
	19500.00	90.42	179.60	10740.65	8585.40	-8590.34	-677.47	0.00	389848.00	771651.42	N 32.069591	W 103.589804
	19600.00	90.42	179.60	10739.92	8685.40	-8690.34	-676.77	0.00	389748.01	771652.12		W 103.589804
	19700.00	90.42	179.60	10739.19	8785.40	-8790.33	-676.07	0.00	389648.02	771652.83		W 103.589804
	19800.00 19900.00	90.42 90.42	179.60	10738.46	8885.40	-8890.33 -8990.32	-675.36	0.00 0.00	389548.03	771653.53 771654.23		W 103.589804 W 103.589803
	20000.00	90.42	179.60 179.60	10737.74 10737.01	8985.39 9085.39	-9090.32 -9090.32	-674.66 -673.96	0.00	389448.03 389348.04	771654.23		
	20100.00	90.42	179.60		9185.39	-9190.31		0.00	389248.05	771655.63		W 103.589803 W 103.589803
	20200.00	90.42	179.60	10736.28 10735.56	9285.38	-9290.31	-673.26 -672.56	0.00	389148.06	771656.33	N 32.067667	W 103.589803 W 103.589803
	20300.00	90.42	179.60	10734.83	9385.38	-9390.30	-671.86	0.00	389048.07	771657.03		W 103.589803
	20400.00	90.42	179.60	10734.10	9485.38	-9490.30	-671.16	0.00	388948.08	771657.73		W 103.589803
	20500.00	90.42	179.60	10733.38	9585.38	-9590.29	-670.46	0.00	388848.08	771658.43		W 103.589803
	20600.00	90.42	179.60	10732.65	9685.37	-9690.29	-669.76	0.00	388748.09	771659.13	N 32.066567	W 103.589803
	20700.00	90.42	179.60	10731.92	9785.37	-9790.28	-669.06	0.00	388648.10	771659.84		W 103.589803
	20800.00	90.42	179.60	10731.20	9885.37	-9890.28	-668.35	0.00	388548.11	771660.54		W 103.589803
	20900.00	90.42	179.60	10730.47	9985.37	-9990.27	-667.65	0.00	388448.12	771661.24		W 103.589803
	_0000.00	00. IL			0000.01	0000.E1	001.00	0.00	300110.12		02.000740	100.000000
Red Hills 32-5 State Com 203H - BHL [100' FSL,	20964.52	90.42	179.60	10730.00	10049.89	-10054.79	-667.20	0.00	388383.60	771661.69	N 32.065565	W 103.589803
1248' FEL]												

Survey Type:

Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 3 \*\*\* 3-D 95.000% Confidence 2.7955 sigma

 Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ng Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	30.000	30.000		A001Mb_MWD-Depth Only	Red Hills 32-5 State Com 203H / Coterra Red Hills 32-5 State Com
	1	23.000	10300.000	1/100.000	30.000	30.000		A001Mb_MWD	Red Hills 32-5 State Com 203H / Coterra Red Hills 32-5 State Com
	1	10300.000	20964.522	1/100.000	30.000	30.000		A008Mb_MWD+IFR1+MS	Red Hills 32-5 State Com 203H / Coterra Red Hills 32-5 State Com

Intent	:	As Dril	ed											
API#														
Opei	rator Nar	ne:				Prop	perty N	ame:						Well Number
						l								
Kick C	off Point	(KOP)												
								Fron	n E/W	County				
Latitu	de				Longitu	ıde							NAD	
					1									
First T	ake Poin	t (FTP)												
UL	Section	Township	Range	Lot	Feet		From N	I/S	Feet		Fron	n E/W	County	
Latitu	titude Longitude NAD							NAD						
Lact T	ake Poin	+ /I TD\												
UL	Section	Township	Range	Lot	Feet	Fror	m N/S	Feet		From	E/W	Count	:y	
Latitu	de				Longitu	ıde						NAD		
Is this	well the	defining w	ell for th	ne Hori:	zontal Sp	pacing	g Unit?							
Is this	well an i	infill well?			7									
15 (1115	Well dir.				_									
	l is yes pl ng Unit.	ease provi	de API if	availak	ole, Opei	rator I	Name	and w	vell ni	umbei	r for I	Definir	ng well fo	r Horizontal
API#														
Opei	rator Nar	ne:	l			Prop	perty N	ame:						Well Number

KZ 06/29/2018

# 1. Geological Formations

TVD of target 10,730

Pilot Hole TD N/A

MD at TD 20,964

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	959	Useable Water	
Top of Salt	1374	N/A	
Base of Salt	4892	N/A	
Bell Canyon	4954	N/A	
Cherry Canyon	6026	N/A	
Brushy Canyon	7562	N/A	
Bone Spring	9064	Hydrocarbons	
Avalon Shale	9381	Hydrocarbons	
Lower Avalon Shale	9756	Hydrocarbons	
1st Bone Spring Sand	10061	Hydrocarbons	
2nd Bone Spring Sand	10589	Hydrocarbons	
3rd Bone Spring Sand	11707	Hydrocarbons	

## 2. Casing Program

	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	976	976	13-3/8"	48.00	H-40	ST&C	1.75	4.09	6.87
12 1/4	0	4980	4980	9-5/8"	40.00	HCK-55	LT&C	1.42	1.48	2.82
8 3/4	0	10273	10273	7"	29.00	L-80	LT&C	1.46	1.70	1.88
8 3/4	10273	11023	10761	7"	29.00	P-110	BT&C	1.69	2.23	65.64
6	9273	20965	10730	4-1/2"	11.60	P-110	BT&C	1.43	2.02	21.71
					BLM	Minimum Sa	lfety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

# Cimarex Energy Co., Red Hills 32-5 State Com 203H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Υ

# 3. Cementing Program

13.50 14.80 12.90	1.34	6.32		Lead: Class C + Bentonite  Tail: Class C + LCM
	1		9.5	Tail: Class C + LCM
12.90	1.88	9.65		
12.90	1.88	0.65		
		9.03	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
14.80	1.34	6.32	9.5	Tail: Class C + LCM
10.30	3.64	22.18		Lead: Tuned Light + LCM
14.80	1.36	6.57	9.5	Tail: Class C + Retarder
14.50	1.30	5.79	20	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + Expanding Agent + Retarder + Antifoam
	14.80	14.80 1.36	14.80 1.36 6.57	14.80 1.36 6.57 9.5

Casing String	тос	% Excess
Surface	0	42
Intermediate	0	49
Production	4780	25
Completion System	10823	10

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

## 4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2М	Annular	Х	
			Blind Ram		
			Pipe Ram		2M
			Double Ram	Х	
			Other		
8 3/4	13 5/8	3M	Annular	Х	
			Blind Ram		
			Pipe Ram		3M
			Double Ram	Х	
			Other		
6	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram	Х	5M
			Double Ram	Х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

- X Formation integrity test will be performed per Onshore Order #2.
  On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed.
  Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
- X A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
  - N Are anchors required by manufacturer?

## 5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 976'	Fresh Water	7.83 - 8.33	28	N/C
976' to 4980'	Brine Water	9.83 - 10.33	30-32	N/C
4980' to 11023'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11023' to 20965'	ОВМ	9.00 - 9.50	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

## 6. Logging and Testing Procedures

Logg	ging, Coring and Testing
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Х	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

### 7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5300 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S plan is attached

## 8. Other Facets of Operation

## 9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

### 10.Other Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage packoff and lock ring 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 203H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 203H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hangeris made up on the last joint of 13 3/8" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 203H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.

Cimarex Energy Company of Colorado

I. Operator:

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

Submit Electronically Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

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

# Section 1 – Plan Description Effective May 25, 2021

**OGRID:** 

☐ Amendmei	nt due to $\square$ 19.15.27.	9.D(6)(a) NMA	.C □ 19.15.27.9.D	(6)(b) NMAC □	Other.
:					
				wells proposed	to be drilled or proposed
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
[	A, Sec 32 T25S, R33E	407 FNL/510 FI	EL 1834	3300	3700
			ntral delivery poin Completion	nt. Initial F	Flow First Production
Н	2/1/2025	4/1/2025	7/1/2025	8/1/202	25 8/1/2025
tices:  Attacof 19.15.27.8	ch a complete descrip NMAC.	ption of the act	ions Operator will	I take to comply	with the requirements of
	he following in single well p  API  API  Dint Name: _]  API  Hent:  Attack  At	he following information for each a single well pad or connected to a API ULSTR  A, Sec 32 T25S, R33E  Dint Name: _Red Hills 32-5 CTB  Die: Provide the following informate pleted from a single well pad or considered from a single wel	he following information for each new or recompleted in single well pad or connected to a central delivery  API ULSTR Footages  A, Sec 32 T25S, R33E 407 FNL/510 F  Dint Name: _Red Hills 32-5 CTB Sales  Die: Provide the following information for each new pleted from a single well pad or connected to a central delivery  API Spud Date TD Reached Date  API Spud Date TD Reached Date  Dent: \( \times \) Attach a complete description of how Operatices: \( \times \) Attach a complete description of the act of 19.15.27.8 NMAC.	he following information for each new or recompleted well or set of a single well pad or connected to a central delivery point.  API ULSTR Footages Anticipated Oil BBL/D  A, Sec 32 T25S, R33E 407 FNL/510 FEL 1834  Dint Name: _Red Hills 32-5 CTB Sales  Die: Provide the following information for each new or recompleted pleted from a single well pad or connected to a central delivery point API Spud Date TD Reached Completion Date Commencement  A 2/1/2025 4/1/2025 7/1/2025  Dient: Attach a complete description of how Operator will size septices: Attach a complete description of the actions Operator will of 19.15.27.8 NMAC.  A PI VLSTR FOOTAGE Anticipated Oil BBL/D  A PI Spud Date TD Reached Completion Commencement Commencement Commencement Commencement Commencement Complete Description of the actions Operator will of 19.15.27.8 NMAC.	he following information for each new or recompleted well or set of wells proposed a single well pad or connected to a central delivery point.  API ULSTR Footages Anticipated Gas MCF/D  A, Sec 32 T25S, R33E 407 FNL/510 FEL 1834 3300  Dint Name: _Red Hills 32-5 CTB Sales [See

# Section 2 – Enhanced Plan

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.  Departor certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.  IX. Anticipated Natural Gas Production:  Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF  Natural Gas Rate MCF/D Gas for the First Year MCF  X. Natural Gas Gathering System (NGGS):  Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in  XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).				E APRIL 1, 2022	
IX. Anticipated Natural Gas Production:  Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF  Natural Gas Rate MCF/D Gas for the First Year MCF  X. Natural Gas Gathering System (NGGS):  ULSTR of Tie-in Anticipated Gathering System Segment Tie-in Start Date of System Segment Tie-in Of System Se				with its statewide natural ga	as capture requirement for the applicable
Well API Anticipated Average Natural Gas Rate MCF/D Gas for the First Year MCF  X. Natural Gas Gathering System (NGGS):  Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in  XI. Map.  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).				tion because Operator is in o	compliance with its statewide natural gas
Natural Gas Rate MCF/D  Gas for the First Year MCF  X. Natural Gas Gathering System (NGGS):    Operator	IX. Anticipated Na	atural Gas Producti	on:		
Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in  XI. Map.   Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system   will   will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator   does   does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).	W	/ell	API		
Operator System ULSTR of Tie-in Anticipated Gathering Start Date of System Segment Tie-in  XI. Map.   Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system   will   will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator   does   does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).					
XI. Map.   Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system   will   will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator   does   does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).	X. Natural Gas Ga	athering System (NO	GGS):		
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system   will   will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator   does   does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).	Operator	System	ULSTR of Tie-in		
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.  XII. Line Capacity. The natural gas gathering system   will   will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.  XIII. Line Pressure. Operator   does   does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).					
☐ Attach Operator's plan to manage production in response to the increased line pressure.	production operation the segment or port  XII. Line Capacity production volume  XIII. Line Pressur natural gas gathering	ons to the existing of pion of the natural gas gas.  The natural gas gas from the well prior to the comparison of the c	planned interconnect of the graphering system will thereing system will to the date of first product does not anticipate the dabove will continue to	he natural gas gathering systewhich the well(s) will be considered will not have capacity to getion.  at its existing well(s) connect meet anticipated increases in	em(s), and the maximum daily capacity of nected.  eather 100% of the anticipated natural gas teed to the same segment, or portion, of the
XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.	Section 2 as provide	ed in Paragraph (2) o	f Subsection D of 19.15.2	27.9 NMAC, and attaches a f	

# Section 3 - Certifications Effective May 25, 2021

	Effective Way 25, 2021
Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. ☐ Operat D of 19.15.27.9 NMAC	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
0	lan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential es for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
(b)	power generation for grid;
(c)	compression on lease;
<b>(d)</b>	liquids removal on lease;
(e)	reinjection for underground storage;
<b>(f)</b>	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;
(h)	fuel cell production; and
(i)	other alternative beneficial uses approved by the division.

# **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Sarah Jordan
Printed Name: Sarah Jordan
Title: Regulatory Analyst
E-mail Address: sarah.jordan@coterra.com
Date: 1/31/2023
Phone: 432/620-1909
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

## From State of New Mexico, Natural Gas Management Plan

**VI. Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture.

## **XEC Standard Response**

Standard facility gas process flow begins at the inlet separator. These vessels are designed based off of forecasted rates and residence times in accordance with, and often greater than, API 12J. The separated gas is then routed to an additional separation vessel (ie sales scrubber) in order to extract liquids that may have carried over or developed due to the decrease in pressure. The sales scrubber is sized based on API 521. From the sales scrubber, the gas leaves the facility and enters the gas midstream gathering network.

# **Cimarex**

# **VII. Operational Practices**

Cimarex values the sustainable development of New Mexico's natural resources. Venting and flaring of natural gas is a source of waste in the industry, and Cimarex will ensure that its values are aligned with those of NMOCD. As such, Cimarex plans to take pointed steps to ensure compliance with Subsection A through F of 19.15.27.8 NMAC.

Specifically, below are the steps Cimarex will plan to follow under routine well commissioning and operations.

- 1. Capture or combust natural gas during drilling operations where technically feasible, using the best industry practices and control technologies.
  - a. All flares during these operations will be a minimum of 100ft away from the nearest surface-hole location.
- 2. All gas present during post-completion drill-out and flow back will be routed through separation equipment, and, if technically feasible, flare unsellable vapors rather than vent. Lastly, formal sales separator commissioning to process well-stream fluids and send gas to a gas flow line/collection system or use the gas for on-site fuel or beneficial usage, gas as soon as is safe and technically feasible.
- 3. Cimarex will ensure the flare or combustion equipment is properly sized to handle expected flow rates, ensure this equipment is equipped with an automatic or continuous ignition source, and ensure this equipment is designed for proper combustion efficiency.
- 4. If Cimarex must flare because gas is not meeting pipeline specifications, Cimarex will limit flaring to <60 days, analyze gas composition at least twice per week, and route gas into a gathering pipeline as soon as pipeline specifications are met.
- 5. Under routine production operations, Cimarex will not flare/vent unless:
  - a. Venting or flaring occurs due to an emergency or equipment malfunction.
  - b. Venting or flaring occurs as a result of unloading practices, and an operator is onsite (or within 30 minutes of drive time and posts contact information at the wellsite) until the end of unloading practice.
  - c. The venting or flaring occurs during automated plungerlift operations, in which case the Cimarex operator will work to optimize the plungerlift system to minimize venting/flaring.
  - d. The venting or flaring occurs during downhole well maintenance, in which case Cimarex will work to minimize venting or flaring operations to the extent that it does not pose a risk to safe operations.
  - e. The well is an exploratory well, the division has approved the well as an exploratory well, venting or flaring is limited to 12 months, as approved by the division, and venting/flaring does not cause Cimarex to breach its State-wide 98% gas capture requirement.
  - f. Venting or flaring occurs because the stock tanks or other low-pressure vessels are being gauged, sampled, or liquids are being loaded out.
  - g. The venting or flaring occurs because pressurized vessels are being maintained and are being blown-down or depressurized.
  - h. Venting or flaring occurs as a result of normal dehydration unit operations.

- i. Venting or flaring occurs as a result of bradenhead testing.
- j. Venting or flaring occurs as a result of normal compressor operations, including general compressor operations, compressor engines and turbines.
- k. Venting or flaring occurs as a result of a packer leakage test.
- l. Venting or flaring occurs as a result of a production test lasting less than 24 hours unless otherwise approved by the division.
- m. Venting or flaring occurs as a result of new equipment commissioning and is necessary to purge impurities from the pipeline or production equipment.
- 6. Cimarex will maintain its equipment in accordance with its Operations and Maintenance Program, to ensure venting or flaring events are minimized and that equipment is properly functioning.
- 7. Cimarex will install automatic tank gauging equipment on all production facilities constructed after May 25, 2021, to ensure minimal emissions from tank gauging practices.
- 8. By November 25, 2022, all Cimarex facilities equipped with flares or combustors will be equipped with continuous pilots or automatic igniters, and technology to ensure proper function, i.e. thermocouple, fire-eye, etc...
- 9. Cimarex will perform AVO (audio, visual, olfactory) facility inspections in accordance with NMOCD requirements. Specifically, Cimarex will:
  - a. Perform weekly inspections during the first year of production, and so long as production is greater than 60 MCFD.
  - b. If production is less than 60 MCFD, Cimarex will perform weekly AVO inspections when an operator is present on location, and inspections at least once per calendar month with at least 20 calendar days between inspections.
- 10. Cimarex will measure or estimate the volume of vented, flared or beneficially used natural gas, regardless of the reason or authorization for such venting or flaring.
- 11. On all facilities constructed after May 25, 2021, Cimarex will install metering where feasible and in accordance with available technology and best engineering practices, in an effort to measure how much gas could have been vented or flared.
  - a. In areas where metering is not technically feasible, such as low-pressure/low volume venting or flaring applications, engineering estimates will be used such that the methodology could be independently verified.
- 12. Cimarex will fulfill the division's requirements for reporting and filing of venting or flaring that exceeds 50 MCF in volume or last eight hours or more cumulatively within any 24-hour period.

# VIII. Best Management Practices to minimize venting during active and planned maintenance

Cimarex strives to ensure minimal venting occurs during active and planned maintenance activities. Below is a description of common maintenance practices, and the steps Cimarex takes to limit venting exposure.

## • Workovers:

- o Always strive to kill well when performing downhole maintenance.
- o If vapors or trapped pressure is present and must be relieved then:
  - Initial blowdown to production facility:
    - Route vapors to LP flare if possible/applicable
  - Blowdown to portable gas buster tank:
    - Vent to existing or portable flare if applicable.

# • Stock tank servicing:

- o Minimize time spent with thief hatches open.
- When cleaning or servicing via manway, suck tank bottoms to ensure minimal volatiles exposed to atmosphere.
  - Connect vacuum truck to low pressure flare while cleaning bottoms to limit venting.
- o Isolate the vent lines and overflows on the tank being serviced from other tanks.

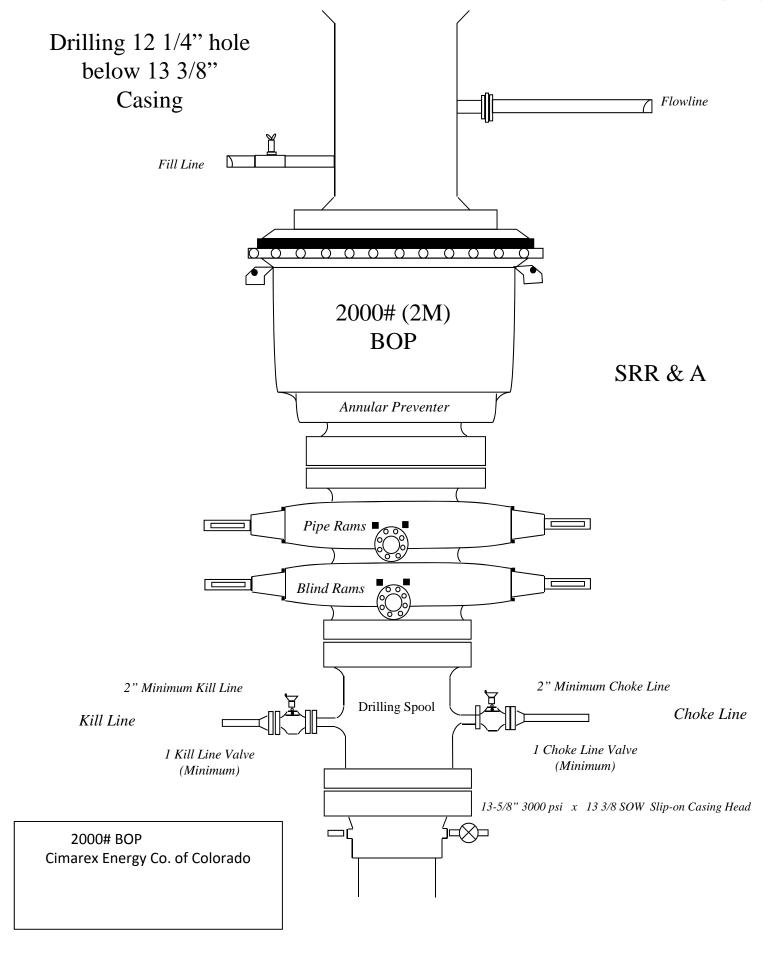
## • Pressure vessel/compressor servicing and associated blowdowns:

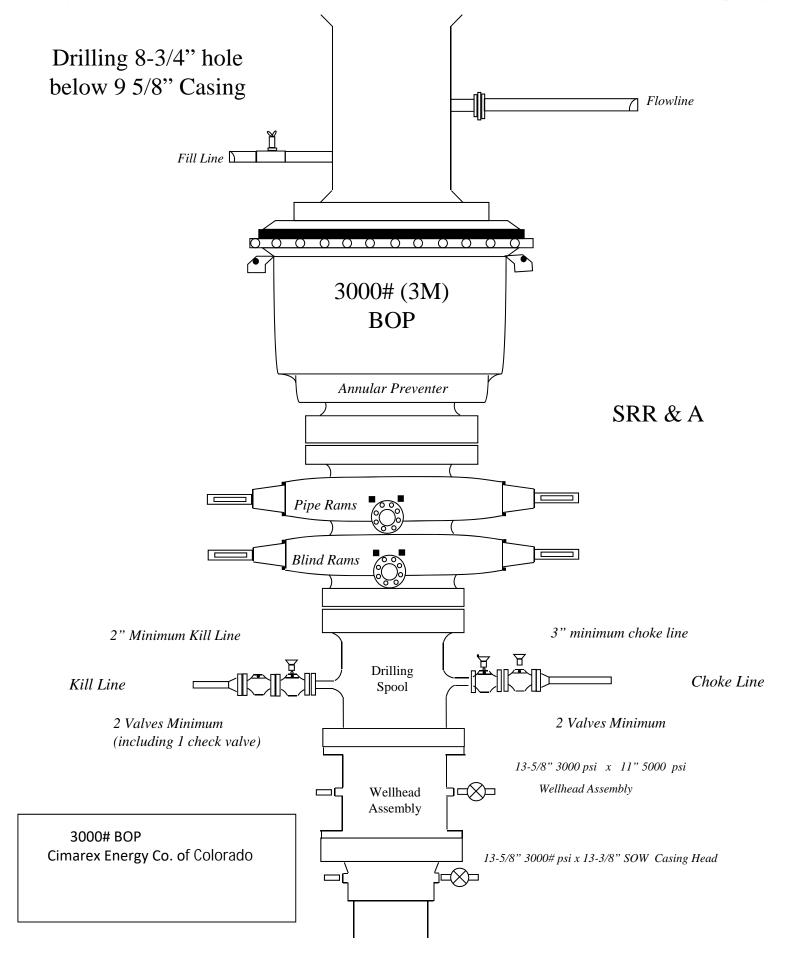
- o Route to flare where possible.
- o Blow vessel down to minimum available pressure via pipeline, prior to venting vessel.
- Preemptively changing anodes to reduce failures and extended corrosion related servicing.
- When cleaning or servicing via manway, suck vessel bottoms to ensure minimal volatiles exposed to atmosphere.

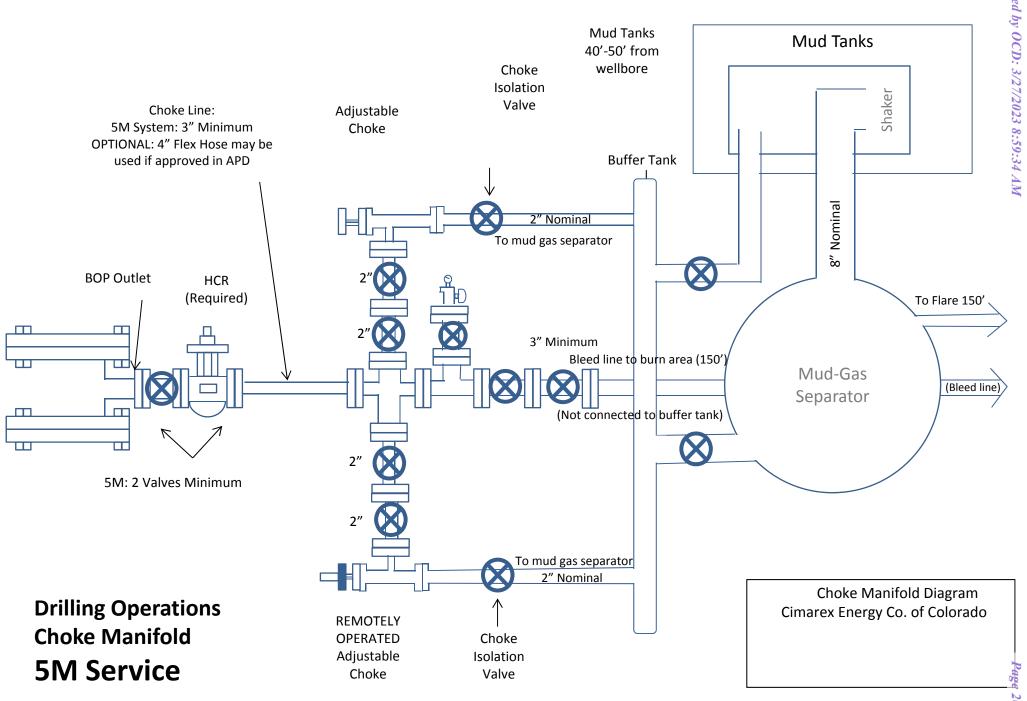
## • Flare/combustor maintenance:

- Minimize downtime by coordinating with vendor and Cimarex staff travel logistics.
- Utilizing preventative and predictive maintenance programs to replace high wear components before failure.
- Because the flare/combustor is the primary equipment used to limit venting practices, ensure flare/combustor is properly maintained and fully operational at all times via routine maintenance, temperature telemetry, onsite visual inspections.

The Cimarex expectation is to limit all venting exposure. Equipment that may not be listed on this document is still expected to be maintained and associated venting during such maintenance minimized.







## Hydrogen Sulfide Drilling Operations Plan Red Hills 32-5 State Com 200H, 201H, 202H,203H Cimarex Energy Co. of Colorado Lea Co., 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.

## 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 (H₂S present in dangerous concentration). Only H2S trained and certified personnel admitted to location.

## 5 Well control equipment:

A. See exhibit "E-1"

### 6 <u>Communication:</u>

- 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 r cores are planned at this time.

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

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

Cimarex Energy Co. of Colorado Lea Co., 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 432-620-1975
- « 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 ( $SO_2$ ). 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>

Please see attached International Chemical Safety Cards.

#### **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).

# H₂S Contingency Plan Emergency Contacts

## Cimarex Energy Co. of Colorado Lea Co., NM

Cimarex Energy Co. of Colora	ado	800-969-4789		
Co. Office and After-Hours M		000 303 4703		
Key Personnel				
Name	Title	Office		Mobile
Larry Seigrist	Drilling Manager	432-620-1934		580-243-8485
Charlie Pritchard	Drilling Superintendent	432-620-1975		432-238-7084
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	Committee	575-746-2122		
New Mexico Oil Conservat		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		575-887-3798		
Local Emergency Planning	Committee	575-887-6544		
US Bureau of Land Manag	ement	575-887-6544		
Santa Fe				
	esponse Commission (Santa Fe)	505-476-9600		
	esponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emerge		505-476-9635		
<u>National</u>	Control (Markinston, D.C.)	000 424 0002		
ivational Emergency Respo	onse Center (Washington, D.C.)	800-424-8802		
<u>Medical</u>				
Flight for Life - 4000 24th S	St.; Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Lu	bbock, TX	806-747-8923		
Med Flight Air Amb - 2301	Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
SB Air Med Service - 2505	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		
Other				
Boots & Coots IWC		800-256-9688	or	281-931-8884
DOUG & COOKS IVVC		432-699-0139	or	432-563-3356
Cudd Pressure Control				
Cudd Pressure Control Halliburton		575-746-2757	- 01	432-303-3330