

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-44213
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Cimarex Energy Co.		6. State Oil & Gas Lease No. VB-1540-0001
3. Address of Operator 600 N. Marienfeld St., Suite 600 Midland, TX 79701		7. Lease Name or Unit Agreement Name Chief 30 State
4. Well Location Unit Letter A : 330 feet from the North line and 660 feet from the East line Section 30 Township 20S Range 35E NMPM County Lea		8. Well Number #8H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3705' GR		9. OGRID Number 215099
		10. Pool name or Wildcat Berry; Bone Spring, North (5535)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Cimarex respectfully requests approval to change the BHL of the Chief 30 State #8H.

HOBBS OCD

Approved:
BHL: 330' FSL & 660' FEL

JUL 17 2018

Proposed:
BHL: 100' FSL & 660' FEL

RECEIVED

Please see the attached plat and directional plan for changes due to the BHL move.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE Regulatory Analyst

DATE 7/17/2018

Type or print name Fatima Vasquez

E-mail address: fvasquez@cimarex.com

PHONE: (432) 620-1933

For State Use Only

APPROVED BY:

TITLE

Petroleum Engineer

DATE

Conditions of Approval (if any):

Cimarex Chief 30 State #8H Rev1 RM 16July18 Proposal Geodetic Report

(Non-Def Plan)

Report Date: July 16, 2018 - 09:22 AM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Chief 30 State #8H / Cimarex Chief 30 State #8H
Well: Cimarex Chief 30 State #8H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Chief 30 State #8H Rev1 RM 16July18
Survey Date: November 09, 2017
Tort / AHD / DDI / ERD Ratio: 90.000 ° / 4855.322 ft / 5.786 / 0.415
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 33' 1.72767", W 103° 29' 24.64645"
Location Grid N/E Y/X: N 565023.820 ftUS, E 801135.470 ftUS
CRS Grid Convergence Angle: 0.4537 °
Grid Scale Factor: 0.99998639
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.541 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3731.300 ft above MSL
Seabed / Ground Elevation: 3705.300 ft above MSL
Magnetic Declination: 6.655 °
Total Gravity Field Strength: 998.4979mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48161.183 nT
Magnetic Dip Angle: 60.483 °
Declination Date: July 16, 2018
Magnetic Declination Model: HDGM 2017
North Reference: Grid North
Grid Convergence Used: 0.4537 °
Total Corr Mag North->Grid North: 6.2015 °
Local Coord Referenced To: Structure Reference Point

HOBBS OCD

JUL 17 2018

RECEIVED

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 ° ' ")
SHL [330' FNL, 660' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	100.00	0.00	179.54	100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	200.00	0.00	179.54	200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	300.00	0.00	179.54	300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	400.00	0.00	179.54	400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	500.00	0.00	179.54	500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	600.00	0.00	179.54	600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	700.00	0.00	179.54	700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	800.00	0.00	179.54	800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	900.00	0.00	179.54	900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1000.00	0.00	179.54	1000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1100.00	0.00	179.54	1100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1200.00	0.00	179.54	1200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1300.00	0.00	179.54	1300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1400.00	0.00	179.54	1400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1500.00	0.00	179.54	1500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1600.00	0.00	179.54	1600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1700.00	0.00	179.54	1700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1800.00	0.00	179.54	1800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	1900.00	0.00	179.54	1900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2000.00	0.00	179.54	2000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2100.00	0.00	179.54	2100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2200.00	0.00	179.54	2200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2300.00	0.00	179.54	2300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2400.00	0.00	179.54	2400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2500.00	0.00	179.54	2500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2600.00	0.00	179.54	2600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2700.00	0.00	179.54	2700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2800.00	0.00	179.54	2800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	2900.00	0.00	179.54	2900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3000.00	0.00	179.54	3000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3100.00	0.00	179.54	3100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3200.00	0.00	179.54	3200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3300.00	0.00	179.54	3300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3400.00	0.00	179.54	3400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3500.00	0.00	179.54	3500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3600.00	0.00	179.54	3600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3700.00	0.00	179.54	3700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3800.00	0.00	179.54	3800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	3900.00	0.00	179.54	3900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4000.00	0.00	179.54	4000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4100.00	0.00	179.54	4100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4200.00	0.00	179.54	4200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4300.00	0.00	179.54	4300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4400.00	0.00	179.54	4400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4500.00	0.00	179.54	4500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4600.00	0.00	179.54	4600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4700.00	0.00	179.54	4700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4800.00	0.00	179.54	4800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	4900.00	0.00	179.54	4900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5000.00	0.00	179.54	5000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5100.00	0.00	179.54	5100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5200.00	0.00	179.54	5200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5300.00	0.00	179.54	5300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5400.00	0.00	179.54	5400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5500.00	0.00	179.54	5500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5600.00	0.00	179.54	5600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5700.00	0.00	179.54	5700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
Delaware Sands	5780.00	0.00	179.54	5780.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5800.00	0.00	179.54	5800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	5900.00	0.00	179.54	5900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6000.00	0.00	179.54	6000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6100.00	0.00	179.54	6100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6200.00	0.00	179.54	6200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6300.00	0.00	179.54	6300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6400.00	0.00	179.54	6400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6500.00	0.00	179.54	6500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6600.00	0.00	179.54	6600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6700.00	0.00	179.54	6700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6800.00	0.00	179.54	6800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	6900.00	0.00	179.54	6900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	7000.00	0.00	179.54	7000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24.65
	7100.00	0.00	179.54	7100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73	W 103 29 24

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7600.00	0.00	179.54	7600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	7700.00	0.00	179.54	7700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	7800.00	0.00	179.54	7800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	7900.00	0.00	179.54	7900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8000.00	0.00	179.54	8000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8100.00	0.00	179.54	8100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8200.00	0.00	179.54	8200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
Brushy Canyon	8221.00	0.00	179.54	8221.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8300.00	0.00	179.54	8300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8400.00	0.00	179.54	8400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8500.00	0.00	179.54	8500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8600.00	0.00	179.54	8600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
Bone Spring	8677.00	0.00	179.54	8677.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8700.00	0.00	179.54	8700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8800.00	0.00	179.54	8800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	8900.00	0.00	179.54	8900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9000.00	0.00	179.54	9000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9100.00	0.00	179.54	9100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9200.00	0.00	179.54	9200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9300.00	0.00	179.54	9300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9400.00	0.00	179.54	9400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9500.00	0.00	179.54	9500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9600.00	0.00	179.54	9600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9700.00	0.00	179.54	9700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9800.00	0.00	179.54	9800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
1st Bone Spring Sand	9898.00	0.00	179.54	9898.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	9900.00	0.00	179.54	9900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10000.00	0.00	179.54	10000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10100.00	0.00	179.54	10100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10200.00	0.00	179.54	10200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10300.00	0.00	179.54	10300.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10400.00	0.00	179.54	10400.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10500.00	0.00	179.54	10500.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10600.00	0.00	179.54	10600.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10700.00	0.00	179.54	10700.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
2nd Bone Spring Sand	10704.00	0.00	179.54	10704.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10800.00	0.00	179.54	10800.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	10900.00	0.00	179.54	10900.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	11000.00	0.00	179.54	11000.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	11100.00	0.00	179.54	11100.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	11200.00	0.00	179.54	11200.00	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
KOP - Build 12°/100' DLS	11232.54	0.00	179.54	11232.54	0.00	0.00	0.00	0.00	565023.82	801135.47	N 32 33 1.73 W 103 29 24.65	
	11300.00	8.10	179.54	11299.78	4.76	-4.76	0.04	12.00	565019.06	801135.51	N 32 33 1.68 W 103 29 24.65	
	11400.00	20.10	179.54	11396.59	29.07	-29.07	0.23	12.00	564994.75	801135.70	N 32 33 1.44 W 103 29 24.65	
	11500.00	32.10	179.54	11486.23	72.98	-72.97	0.59	12.00	564950.85	801136.06	N 32 33 1.01 W 103 29 24.65	
	11600.00	44.10	179.54	11564.78	134.56	-134.56	1.08	12.00	564889.27	801136.55	N 32 33 0.40 W 103 29 24.65	
Top 3rd Bone Spring Sand	11607.32	44.97	179.54	11570.00	139.69	-139.69	1.12	12.00	564884.13	801136.59	N 32 33 0.35 W 103 29 24.65	
	11700.00	56.10	179.54	11628.82	211.13	-211.13	1.69	12.00	564812.70	801137.16	N 32 32 59.64 W 103 29 24.65	
	11800.00	68.10	179.54	11675.53	299.34	-299.33	2.40	12.00	564724.49	801137.87	N 32 32 58.77 W 103 29 24.65	
	11900.00	80.10	179.54	11702.88	395.34	-395.33	3.17	12.00	564628.50	801138.64	N 32 32 57.82 W 103 29 24.65	
Landing Point	11982.54	90.00	179.54	11710.00	477.46	-477.45	3.83	12.00	564546.38	801139.30	N 32 32 57.00 W 103 29 24.65	
	12000.00	90.00	179.54	11710.00	494.93	-494.91	3.97	0.00	564528.91	801139.44	N 32 32 56.83 W 103 29 24.65	
	12100.00	90.00	179.54	11710.00	594.93	-594.91	4.77	0.00	564428.92	801140.24	N 32 32 55.84 W 103 29 24.65	
	12200.00	90.00	179.54	11710.00	694.93	-694.91	5.57	0.00	564328.92	801141.04	N 32 32 54.85 W 103 29 24.65	
	12300.00	90.00	179.54	11710.00	794.93	-794.90	6.38	0.00	564228.93	801141.85	N 32 32 53.86 W 103 29 24.65	
	12400.00	90.00	179.54	11710.00	894.93	-894.90	7.18	0.00	564128.93	801142.65	N 32 32 52.87 W 103 29 24.65	
	12500.00	90.00	179.54	11710.00	994.93	-994.90	7.98	0.00	564028.94	801143.45	N 32 32 51.88 W 103 29 24.65	
	12600.00	90.00	179.54	11710.00	1094.93	-1094.89	8.78	0.00	563928.94	801144.25	N 32 32 50.89 W 103 29 24.65	
	12700.00	90.00	179.54	11710.00	1194.93	-1194.89	9.58	0.00	563828.95	801145.05	N 32 32 49.90 W 103 29 24.65	
	12800.00	90.00	179.54	11710.00	1294.93	-1294.89	10.39	0.00	563728.95	801145.86	N 32 32 48.91 W 103 29 24.64	
	12900.00	90.00	179.54	11710.00	1394.93	-1394.88	11.19	0.00	563628.96	801146.66	N 32 32 47.93 W 103 29 24.64	
	13000.00	90.00	179.54	11710.00	1494.93	-1494.88	11.99	0.00	563528.96	801147.46	N 32 32 46.94 W 103 29 24.64	
	13100.00	90.00	179.54	11710.00	1594.93	-1594.88	12.79	0.00	563428.97	801148.26	N 32 32 45.95 W 103 29 24.64	
	13200.00	90.00	179.54	11710.00	1694.93	-1694.88	13.59	0.00	563328.97	801149.06	N 32 32 44.96 W 103 29 24.64	
	13300.00	90.00	179.54	11710.00	1794.93	-1794.87	14.40	0.00	563228.98	801149.87	N 32 32 43.97 W 103 29 24.64	
	13400.00	90.00	179.54	11710.00	1894.93	-1894.87	15.20	0.00	563128.98	801150.67	N 32 32 42.98 W 103 29 24.64	
	13500.00	90.00	179.54	11710.00	1994.93	-1994.87	16.00	0.00	563028.99	801151.47	N 32 32 41.99 W 103 29 24.64	
	13600.00	90.00	179.54	11710.00	2094.93	-2094.86	16.80	0.00	562928.99	801152.27	N 32 32 41.00 W 103 29 24.64	
	13700.00	90.00	179.54	11710.00	2194.93	-2194.86	17.60	0.00	562828.00	801153.07	N 32 32 40.01 W 103 29 24.64	
	13800.00	90.00	179.54	11710.00	2294.93	-2294.86	18.41	0.00	562729.00	801153.88	N 32 32 39.02 W 103 29 24.64	
	13900.00	90.00	179.54	11710.00	2394.93	-2394.85	19.21	0.00	562629.00	801154.68	N 32 32 38.03 W 103 29 24.64	
	14000.00	90.00	179.54	11710.00	2494.93	-2494.85	20.01	0.00	562529.01	801155.48	N 32 32 37.04 W 103 29 24.64	
	14100.00	90.00	179.54	11710.00	2594.93	-2594.85	20.81	0.00	562429.01	801156.28	N 32 32 36.05 W 103 29 24.64	
	14200.00	90.00	179.54	11710.00	2694.93	-2694.84	21.61	0.00	562329.02	801157.08	N 32 32 35.06 W 103 29 24.64	
	14300.00	90.00	179.54	11710.00	2794.93	-2794.84	22.42	0.00	562229.02	801157.89	N 32 32 34.07 W 103 29 24.64	
	14400.00	90.00	179.54	11710.00	2894.93	-2894.84	23.22	0.00	562129.03	801158.69	N 32 32 33.08 W 103 29 24.64	
	14500.00	90.00	179.54	11710.00	2994.93	-2994.83	24.02	0.00	562029.03	801159.49	N 32 32 32.09 W 103 29 24.64	
	14600.00	90.00	179.54	11710.00	3094.93	-3094.83	24.82	0.00	561929.04	801160.29	N 32 32 31.10 W 103 29 24.64	
	147											

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 ° ' ")
Survey Error Model:	ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma											
Survey Program:												
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey			
	1	0.000	26.000	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG- Depth Only	Original Borehole / Cimarex Chief 30 State #8H Rev1 RM 16July18			
	1	26.000	16360.392	1/100.000	30.000	30.000		NAL_MWD_PLUS_0.5_DEG	Original Borehole / Cimarex Chief 30 State #8H Rev1 RM 16July18			