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

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-43737	
5. Indicate Type of Lease STATE ☑ FEE ☐	
6. State Oil & Gas Lease No. V0-4297-0002	
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.)	7. Lease Name or Unit Agreement Name Coriander AOC 1-12 state
1. Type of Well: Oil Well ☑ Gas Well ☐ Other	8. Well Number 2H
2. Name of Operator Cimarex Energy Co.	9. OGRID Number 215099
3. Address of Operator 600 N. Marienfeld St., Suite 600 Midland, TX 79701	10. Pool name or Wildcat Diamondtail; Bone Spring (17644)
4. Well Location Unit Letter A : 330 feet from the North line and 710 feet from the East line	
Section 01 Township 23S Range 32E NMPM County Lea	
11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3751' GR	

HOBBS OCD
AUG 03 2018
RECEIVED

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 to change the BHL & casing as follows:

Original BHL: 330' FSL & 660' FEL
Proposed BHL: 100' FSL & 660' FEL

Original casing:
Run 9-5/8" 12.25 40# 4790' Lead: 932 sxs 10.2 ppg 1.88 yield, Tail: 291 sxs 10.2 ppg 1.34 yield
Run 5-1/2" 8.75 17# 18,870' Lead:213 sxs 9.2 ppg 6.18 yield, Tail: 2097 sxs 9.2 ppg 1.30 yield
Proposed casing:
Run 9-5/8" 13.375 48# 1300' 798 sxs 14.8 ppg 1.33 yield
Run tapered string 7" 29# P110MS LTC x 5.5" 20# P110 CY BTC surface to 19656' w/ XO at 8248'
Lead : 400 sxs 10.5 ppg 3.51 yield Tail: 1620 sxs 14.5 ppg 1.24 yield

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 07/30/2018

Type or print name Fatima Vasquez E-mail address: fvasquez@cimarex.com PHONE: (432) 620-1933

For State Use Only

APPROVED BY Karen Sharp TITLE Staff Mgr DATE 8-3-18

Conditions of Approval (if any):

Schlumberger

CIMAREX

Cimarex Coriander AOC 1-12 State 2H Rev2 RM 18July18 Anti-Collision Summary Report

Analysis Date-24hr Time:	July 30, 2018 - 10:19	**Analysis Method:**	3D Least Distance
Client:	Cimarex	**Reference Trajectory:**	Cimarex Coriander AOC 1-12 State 2H Rev2 RM 18July18 (Def Plan)
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Cimarex Coriander AOC 1-12 State 2H	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	Cimarex Coriander AOC 1-12 State 2H	**Min Pts:**	All local minima indicated.
Well:	Cimarex Coriander AOC 1-12 State 2H	**Version / Patch:**	2.10.706.0
Borehole:	Original Borehole	**Database \ Project:**	US1153APP452.dir.slb.com\drilling-NM Lea County 2.10
Scan MD Range:	0.00ft ~ 19656.66ft		

HOBBS OCD

AUG 03 2018

RECEIVED

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan: Not performed!

Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory	Separation Ct-Ct (ft)	Separation MAS (ft)	Separation EOU (ft)	Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory MD (ft)	Reference Trajectory TVD (ft)	Risk Level Alert	Risk Level Minor	Risk Level Major	Status
Cimarex Coriander AOC State 1 (Offset 025-33531) (Def Survey)												Fail Major
	370.90	32.81	368.40	338.09	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	369.66	32.81	367.03	336.85	2989.63	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF
	369.49	32.81	366.91	336.69	4267.13	MAS = 10.00 (m)	26.00	26.00				WRP
	353.28	107.98	280.46	245.31	4.99	OSF1.50	1920.00	1920.00	OSF<5.00			Enter Alert
	308.56	308.67	101.93	-0.11	1.50	OSF1.50	4920.00	4920.00		OSF<1.50		Enter Minor
	286.65	428.93	-0.16	-142.28	1.00	OSF1.50	6780.00	6780.00			OSF<1.00	Enter Major
	267.28	571.44	-114.54	-304.16	0.70	OSF1.50	9150.00	9150.00				MinPts
	312.59	480.21	-8.38	-167.62	0.97	OSF1.50	9320.00	9319.73			OSF>1.00	Exit Major
	368.96	380.41	114.52	-11.45	1.45	OSF1.50	9430.00	9425.63		OSF>1.50		Exit Minor
	822.07	401.62	553.49	420.45	3.08	OSF1.50	10190.00	9730.29				MinPt-O-SF
	1789.84	538.77	1429.83	1251.08	5.00	OSF1.50	11320.00	9732.04	OSF>5.00			Exit Alert
	10038.55	570.42	9657.44	9468.13	26.51	OSF1.50	19656.66	9745.00				TD
Cimarex Coriander AOC 1-12 State 3H Rev2 RM 18July18 (Def Plan)												Fail Minor
	20.00	16.50	17.50	3.50	N/A	MAS = 5.03 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert
	20.00	16.50	17.50	3.50	7877.78	MAS = 5.03 (m)	26.00	26.00				WRP
	20.00	20.01	5.83	-0.01	1.50	OSF1.50	1920.00	1920.00		OSF<1.50		Enter Minor
	20.00	25.38	2.25	-5.38	1.15	OSF1.50	2490.00	2490.00				MinPt-CtCt
	20.02	25.54	2.16	-5.52	1.14	OSF1.50	2510.00	2510.00				MinPts
	20.08	25.61	2.17	-5.54	1.14	OSF1.50	2520.00	2520.00				MinPt-O-ADP
	26.32	26.58	7.77	-0.26	1.48	OSF1.50	2690.00	2690.00		OSF>1.50		Exit Minor
	97.95	31.29	76.25	66.66	4.97	OSF1.50	3490.00	3490.00	OSF>5.00			Exit Alert
	247.47	76.04	195.94	171.43	5.00	OSF1.50	8950.00	8950.00	OSF<5.00			Enter Alert
	247.48	77.20	195.18	170.28	4.92	OSF1.50	9090.00	9090.00				MINPT-O-EOU
	247.49	77.22	195.18	170.28	4.92	OSF1.50	9100.00	9100.00				MinPt-O-ADP
	247.62	77.28	195.27	170.34	4.92	OSF1.50	9140.00	9140.00				MinPt-O-SF
	251.02	77.33	198.63	173.69	4.98	OSF1.50	9260.00	9260.00	OSF>5.00			Exit Alert
	353.24	107.98	280.42	245.26	4.99	OSF1.50	12660.00	9734.12	OSF<5.00			Enter Alert
	347.75	318.01	134.91	29.74	1.64	OSF1.50	19656.66	9745.00				MinPts
Cimarex Coriander AOC 1-12 State 1H final survey (Def Survey)												Fail Minor
	133.97	32.81	131.47	101.16	N/A	MAS = 10.00 (m)	0.00	0.00				Surface
	133.69	32.81	131.38	101.06	17816.79	MAS = 10.00 (m)	26.00	26.00				WRP
	108.78	32.81	93.13	75.97	8.08	MAS = 10.00 (m)	2980.00	2980.00				MinPts
	108.85	32.81	93.06	76.05	8.01	MAS = 10.00 (m)	3010.00	3010.00				MINPT-O-EOU
	128.21	32.81	107.61	95.40	6.95	MAS = 10.00 (m)	4130.00	4130.00				MinPt-O-SF
	132.91	32.81	110.68	100.11	6.61	MAS = 10.00 (m)	4500.00	4500.00				MinPts
	133.00	32.81	110.59	100.19	6.56	MAS = 10.00 (m)	4540.00	4540.00				MINPT-O-EOU
	143.72	38.54	117.19	105.18	5.88	OSF1.50	5440.00	5440.00				MinPt-CtCt
	144.45	40.16	116.85	104.29	5.65	OSF1.50	5690.00	5690.00				MINPT-O-EOU
	144.91	40.68	116.95	104.23	5.59	OSF1.50	5770.00	5770.00				MinPt-O-ADP
	146.29	45.70	114.99	100.59	4.99	OSF1.50	6510.00	6510.00	OSF<5.00			Enter Alert
	129.12	61.68	87.17	67.44	3.21	OSF1.50	8930.00	8930.00				MinPt-CtCt
	129.15	61.74	87.15	67.40	3.21	OSF1.50	8940.00	8940.00				MinPts
	129.33	61.87	87.25	67.46	3.20	OSF1.50	8960.00	8960.00				MinPt-O-SF
	188.74	59.41	148.30	129.32	4.91	OSF1.50	9240.00	9240.00	OSF>5.00			Exit Alert
	324.91	78.79	271.55	246.12	6.34	OSF1.50	11020.00	9731.58				MinPt-CtCt
	318.28	97.49	252.45	220.78	4.99	OSF1.50	11560.00	9732.42	OSF<5.00			Enter Alert
	313.43	110.89	238.67	202.53	4.30	OSF1.50	11940.00	9733.01				MinPt-CtCt
	317.32	119.58	236.77	197.74	4.03	OSF1.50	12180.00	9733.38				MINPT-O-EOU
	322.60	155.91	218.02	166.89	3.13	OSF1.50	13120.00	9734.84				MinPt-CtCt
	324.42	161.09	216.19	163.33	3.04	OSF1.50	13260.00	9735.06				MINPT-O-EOU
	305.74	201.01	170.90	104.73	2.29	OSF1.50	14320.00	9736.71				MinPt-CtCt
	310.26	211.90	168.16	98.36	2.20	OSF1.50	14610.00	9737.16				MINPT-O-EOU
	316.69	223.83	166.64	92.86	2.13	OSF1.50	14890.00	9737.59				MINPT-O-EOU
	302.20	241.88	140.11	60.31	1.88	OSF1.50	15430.00	9738.43				MinPt-CtCt
	306.66	267.21	127.69	39.45	1.72	OSF1.50	15990.00	9739.30				MinPt-CtCt
	308.20	280.04	120.67	28.16	1.65	OSF1.50	16330.00	9739.83				MinPt-CtCt
	307.75	291.51	112.58	16.24	1.58	OSF1.50	16630.00	9740.30				MinPt-CtCt
	311.06	310.42	103.31	0.67	1.50	OSF1.50	17050.00	9740.95				MinPt-CtCt
	311.09	311.37	102.68	-0.28	1.50	OSF1.50	17070.00	9740.98		OSF<1.50		Enter Minor
	318.27	334.33	94.55	-16.06	1.43	OSF1.50	17640.00	9741.87				MinPt-CtCt
	320.67	340.16	93.07	-19.48	1.41	OSF1.50	17800.00	9742.11				MINPT-O-EOU
	325.97	355.91	87.88	-29.94	1.37	OSF1.50	18160.00	9742.67				MinPt-CtCt
	332.42	386.89	73.66	-54.47	1.29	OSF1.50	18890.00	9743.81				MINPT-O-EOU
	332.97	387.62	73.72	-54.65	1.29	OSF1.50	18910.00	9743.84				MinPt-O-SF
	333.63	388.31	73.92	-54.68	1.29	OSF1.50	18930.00	9743.87				MinPt-O-ADP
	336.22	399.22	69.24	-63.00	1.26	OSF1.50	19200.00	9744.29				MinPts
	369.16	370.37	121.41	-1.21	1.50	OSF1.50	19350.00	9744.52		OSF>1.50		Exit Minor
	569.06	253.29	399.36	315.77	3.39	OSF1.50	19656.66	9745.00				TD
Cimarex April APZ State 1H Gyro (Offset 025-33354) (Def Survey)												Warning Alert

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	5310.19	32.81	5308.71	5277.38	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5310.01	32.81	5308.52	5277.21	282238.51	MAS = 10.00 (m)	26.00	26.00				MinPt-O-SF	
	5309.97	32.81	5308.44	5277.16	99164.91	MAS = 10.00 (m)	50.00	50.00				MinPts	
	5310.06	32.81	5302.18	5277.25	829.10	MAS = 10.00 (m)	1500.00	1500.00				MinPts	
	5314.30	32.81	5295.75	5281.49	311.24	MAS = 10.00 (m)	3850.00	3850.00				MinPts	
	5314.40	32.81	5295.63	5281.60	307.28	MAS = 10.00 (m)	3900.00	3900.00				MINPT-O-EOU	
	5325.53	34.93	5301.75	5290.59	238.72	OSF1.50	4960.00	4960.00				MINPT-O-EOU	
	5312.74	46.91	5280.97	5265.82	175.35	OSF1.50	6860.00	6860.00				MinPt-CtCt	
	5312.76	47.46	5280.63	5265.30	173.26	OSF1.50	6940.00	6940.00				MinPt-CtCt	
	5313.38	52.05	5278.19	5261.33	157.57	OSF1.50	7610.00	7610.00				MinPt-CtCt	
	5313.48	53.08	5277.61	5260.42	154.49	OSF1.50	7760.00	7760.00				MinPt-CtCt	
	5314.67	59.00	5274.84	5255.67	138.56	OSF1.50	8650.00	8650.00				MinPt-CtCt	
	5315.24	60.60	5274.34	5254.64	134.82	OSF1.50	8890.00	8890.00				MINPT-O-EOU	
	5315.55	61.00	5274.39	5254.55	133.92	OSF1.50	8950.00	8950.00				MinPt-O-ADP	
	5319.23	63.05	5276.71	5256.19	129.56	OSF1.50	9300.00	9299.90				MinPt-O-SF	
	375.64	116.15	297.12	259.49	4.95	OSF1.50	14750.00	9737.37	OSF<5.00			Enter Alert	
	363.78	119.33	283.70	244.45	4.61	OSF1.50	14840.00	9737.51				MinPt-CtCt	
	363.81	119.48	283.67	244.33	4.61	OSF1.50	14850.00	9737.53				MinPts	
	364.12	119.65	283.86	244.47	4.60	OSF1.50	14860.00	9737.54				MinPt-O-SF	
	385.05	117.44	306.26	267.60	4.96	OSF1.50	14970.00	9737.72	OSF>5.00			Exit Alert	
	4826.20	65.21	4782.23	4760.99	113.55	OSF1.50	19656.68	9745.00				TD	
Cimarex Thyme APY Federal 1 (Offset 025-33370) (Def Survey)													Warning Alert
	951.81	32.81	949.31	919.00	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	951.60	32.81	949.07	918.79	34483.74	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	951.48	32.81	948.96	918.67	50120.04	MAS = 10.00 (m)	26.00	26.00				WRP	
	891.58	269.28	711.21	622.30	5.00	OSF1.50	4600.00	4600.00	OSF<5.00			Enter Alert	
	810.96	564.14	433.96	246.83	2.16	OSF1.50	9290.00	9289.95				MinPt-CtCt	
	812.83	570.21	431.80	242.62	2.14	OSF1.50	9390.00	9387.92				MINPT-O-EOU	
	814.30	571.96	432.10	242.34	2.14	OSF1.50	9420.00	9416.31				MinPt-O-ADP	
	817.08	574.24	433.36	242.84	2.14	OSF1.50	9460.00	9453.11				MinPt-O-SF	
	1964.81	591.38	1569.73	1373.43	5.00	OSF1.50	11340.00	9732.07	OSF>5.00			Exit Alert	
	10122.13	593.25	9725.79	9528.88	25.70	OSF1.50	19656.68	9745.00				TD	

Schlumberger

Cimarex Coriander AOC 1-12 State 2H Rev2 RM 18July18 Proposal Geodetic Report

(Def Plan)

Report Date:	July 30, 2018 - 10:19 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Cimarex	**Vertical Section Azimuth:**	179.630 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Coriander AOC 1-12 State 2H / Cimarex Coriander AOC 1-12 State 2H	**TVD Reference Datum:**	RKB
Well:	Cimarex Coriander AOC 1-12 State 2H	**TVD Reference Elevation:**	3777.000 ft above MSL
Borehole:	Original Borehole	**Seabed / Ground Elevation:**	3751.000 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.808 °
Survey Name:	Cimarex Coriander AOC 1-12 State 2H Rev2 RM 18July18	**Total Gravity Field Strength:**	998.4395mgn (9.80665 Based)
Survey Date:	April 04, 2017	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	90.938 ° / 10134.404 ft / 6.269 / 1.040	**Total Magnetic Field Strength:**	48097.048 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	60.114 °
Location Lat / Long:	N 32° 20' 24.55721", W 103° 37' 19.46487"	**Declination Date:**	July 30, 2018
Location Grid N/E Y/X:	N 488209.700 ftUS, E 761004.100 ftUS	**Magnetic Declination Model:**	HDGM 2018
CRS Grid Convergence Angle:	0.3805 °	**North Reference:**	Grid North
Grid Scale Factor:	0.99996435	**Grid Convergence Used:**	0.3805 °
Version / Patch:	2.10.706.0	**Total Corr Mag North->Grid North:**	6.4272 °
		Local Coord Referenced To:	Structure Reference Point

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, 710' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	488209.70	761004.10	N 32 20 24.56	W 103 37 19.46
Build 12°/100' DLS	9248.06	0.00	166.61	9248.06	0.00	0.00	0.00	0.00	488209.70	761004.10	N 32 20 24.56	W 103 37 19.46
Build & Turn 12°/100' DLS	9539.72	35.00	166.61	9521.92	84.13	-84.00	20.00	12.00	488125.70	761024.10	N 32 20 23.72	W 103 37 19.24
Landing Point	10005.87	89.91	179.63	9730.00	479.35	-479.00	55.33	12.00	487730.72	761059.43	N 32 20 19.81	W 103 37 18.86
Cimarex Coriander AOC 1-12 State 2H - PBHL [100' FSL, 660' FEL]	19656.66	89.91	179.63	9745.00	10130.13	-10129.58	117.80	0.00	478080.50	761121.90	N 32 18 44.32	W 103 37 18.88

Survey Type: Def Plan

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_IFR1+MS-Depth Only	Original Borehole / Cimarex Coriander AOC 1-12 State 2H Rev2 RM 18July18
	1	26.000	19656.663	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS	Original Borehole / Cimarex Coriander AOC 1-12 State 2H

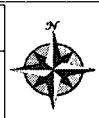
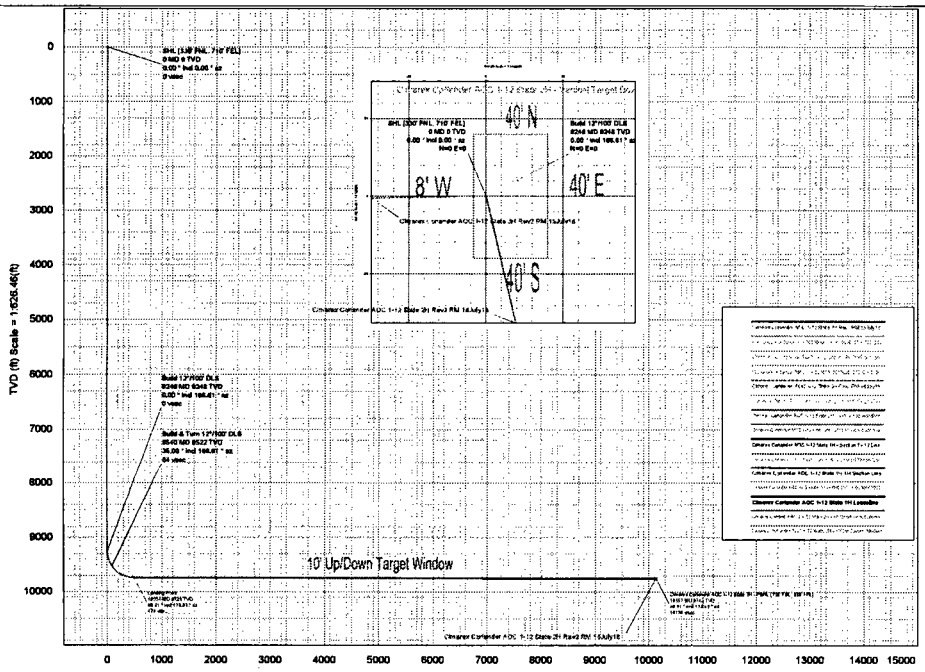
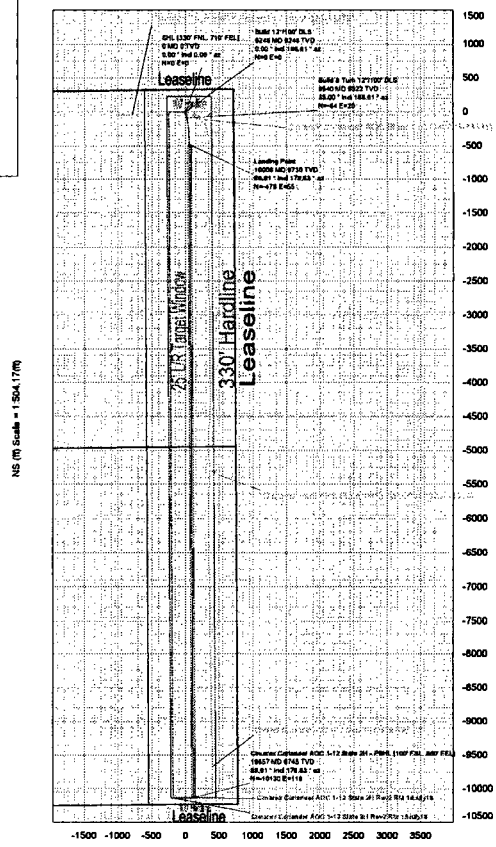
HOBBS
AUG 03 2018
RECEIVED

Schlumberger **Cimarex** Rev2 CIMAREX

Borehole:	Well:	Field:	Structure:
Original Borehole	Cimarex Corlander AOC 1-12 State 2H	NM Lea County (NAD 83)	Cimarex Corlander AOC 1-12 State 2H

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [330' FNL, 710' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Build 12°/100' DLS	9248.05	0.00	166.61	9248.05	0.00	0.00	0.00	0.00
Build & Turn 12°/100' DLS	9539.72	35.00	166.61	9521.92	84.13	-84.00	20.00	12.00
Landing Point	10005.67	89.91	179.63	9730.00	479.35	-479.00	55.33	12.00
Cimarex Corlander AOC 1-12 State 2H - PBHL [100' FSL, 660' FEL]	19656.66	89.91	179.63	9745.00	10130.13	-10129.58	117.80	0.00



CONTROLLED