

DISTRICT I

1025 N. French Dr., Hobbs, NM 88240
Phone (505) 393-5101 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (505) 740-1203 Fax: (505) 740-0720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-0170 Fax: (505) 334-0170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 470-3400 Fax: (505) 470-3402

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

RECEIVED

AUG 14 2013

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-41602	Pool Code 97818	Pool Name Wildcat G-03 S252636M; Bone Spring
Property Code 39082	Property Name COTTONWOOD HILLS 32 STATE.COM	Well Number 4H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3210

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	32	25 S	27 E		330	SOUTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	32	25 S	27 E		330	NORTH	1980	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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.

N: 397807.71 E: 576211.75 NAD 83	N: 397815.20 E: 578881.20 NAD 83	N: 397810.51 E: 581549.51 NAD 83	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Michelle Chappell</i> 08/12/2013 Signature Date Printed Name mchappell@cimarex.com Email Address
N: 395153.49 E: 576181.32 NAD 83	N: 395159.49 E: 581496.44 NAD 83	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my belief. APR 9 2013 Date Surveyed Signature & Seal of Professional Surveyor W.O. No. 28499 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28499	

PROPOSED BOTTOM HOLE LOCATION
Lot - N 32°05'33.73"
Long - W 104°12'35.62"
NMSPC- N 397484.1
E 579563.4
(NAD-83)

SURFACE LOCATION
Lot - N 32°04'47.72"
Long - W 104°12'36.78"
NMSPC- N 392835.5
E 579468.6
(NAD-83)

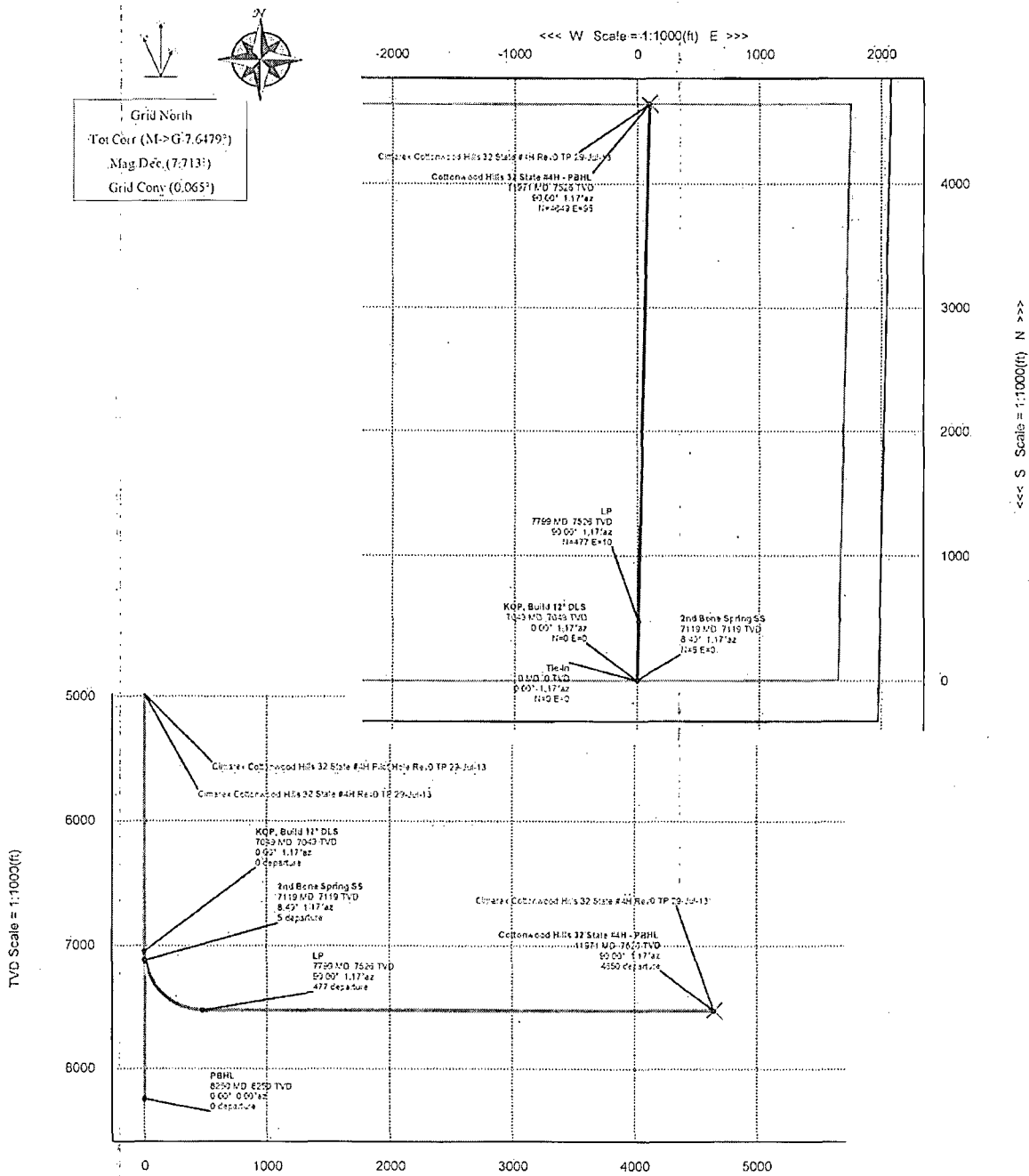
3221.4' 3208.3' 3196' 330' 4650.6' 1980'



Cimarex Energy

PATHFINDER
A Schlumberger Company

WELL	Cottonwood Hills 32 State #4H		FIELD	NM Eddy County (NAD 83)		PRODUCT	Cimarex Cottonwood Hills 32 S	
WELL NUMBER	04	13533	DATE	July 29, 2013	DATE	10/25/2013	WELL STATUS	Active
WELL NAME	Cottonwood Hills 32 State #4H		WELL TYPE	N 32 E 42 S 42 E	WELL TYPE	N 32 E 42 S 42 E	WELL TYPE	N 32 E 42 S 42 E
WELL DEPTH	7526.00		WELL DEPTH	7526.00	WELL DEPTH	7526.00	WELL DEPTH	7526.00
WELL DEPTH	7526.00		WELL DEPTH	7526.00	WELL DEPTH	7526.00	WELL DEPTH	7526.00



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In	0.00	0.00	1.17	0.00	0.00	0.00	0.00	
KOP, Build 12° DLS	7048.50	0.00	1.17	7048.50	0.00	0.00	0.00	0.00
2nd Bone Spring SS	7119.26	8.49	1.17	7119.00	5.23	5.23	0.11	12.00
LP	7798.56	90.00	1.17	7526.00	477.50	477.40	9.75	12.00
Cottonwood Hills 32 State #4H - PBHL	11971.05	90.00	1.17	7526.00	4649.99	4649.02	94.81	0.00

Cimarex Cottonwood Hills 32 State #4H Rev0 TP 29-Jul-13 Proposal Report

(Def Plan)

Report Date:	July 29, 2013 - 01:24 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	1.168 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0 000 N, 0 000 E
Structure / Slot:	Cimarex Cottonwood Hills 32 State #4H / Cottonwood Hills 32 State #4H	TVD Reference Datum:	RKB
Well:	Cottonwood Hills 32 State #4H	TVD Reference Elevation:	3234 000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3210 000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.712 °
Survey Name:	Cimarex Cottonwood Hills 32 State #4H Rev0 TP 29-Jul-13	Total Field Strength:	48207.662 nT
Survey Date:	July 29, 2013	Magnetic Dip Angle:	59.839 °
Tort / AHD / DDI / ERD Ratio:	60 001 ° / 4519 991 ft / 5.623 / 0.618	Declination Date:	July 29, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGMV 2012
Location Lat / Long:	N 32° 4' 47.7266", W 104° 12' 36.7854"	North Reference:	Grid North
Location Grid N/E Y/X:	N 32835.500 NUS, E 579458.600 EUS	Grid Convergence Used:	0.0054 °
CRS Grid Convergence Angle:	0.0654 °	Total Corr Mag North-Grid North:	7.6479 °
Grid Scale Factor:	0.99991078	Local Coord Referenced To:	Structure Reference Point

Comments	MO (N)	Incl (°)	Azim Grid (°)	TVD (N)	VSEC (N)	NS (N)	EW (N)	Northing (NUS)	Easting (NUS)	Latitude (NUS ° ' ")	Longitude (EWS ° ' ")	Closure (N)	Closure Azimuth (°)	DLS (°/100N)
Tie-In Marker MudLine	0.00	0.00	1.17	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	N/A
	24.00	0.00	1.17	24.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	100.00	0.00	1.17	100.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	200.00	0.00	1.17	200.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	300.00	0.00	1.17	300.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	400.00	0.00	1.17	400.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	500.00	0.00	1.17	500.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	600.00	0.00	1.17	600.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	700.00	0.00	1.17	700.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	800.00	0.00	1.17	800.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
900.00	0.00	1.17	900.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00	
1000.00	0.00	1.17	1000.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00	
1100.00	0.00	1.17	1100.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00	
1200.00	0.00	1.17	1200.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00	
1300.00	0.00	1.17	1300.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00	
1400.00	0.00	1.17	1400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
1500.00	0.00	1.17	1500.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
1600.00	0.00	1.17	1600.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
1700.00	0.00	1.17	1700.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
1800.00	0.00	1.17	1800.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
1900.00	0.00	1.17	1900.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2000.00	0.00	1.17	2000.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2100.00	0.00	1.17	2100.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2200.00	0.00	1.17	2200.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2300.00	0.00	1.17	2300.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2400.00	0.00	1.17	2400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2500.00	0.00	1.17	2500.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2600.00	0.00	1.17	2600.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2700.00	0.00	1.17	2700.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2800.00	0.00	1.17	2800.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
2900.00	0.00	1.17	2900.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3000.00	0.00	1.17	3000.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3100.00	0.00	1.17	3100.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3200.00	0.00	1.17	3200.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3300.00	0.00	1.17	3300.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3400.00	0.00	1.17	3400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3500.00	0.00	1.17	3500.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3600.00	0.00	1.17	3600.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3700.00	0.00	1.17	3700.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3800.00	0.00	1.17	3800.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
3900.00	0.00	1.17	3900.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4000.00	0.00	1.17	4000.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4100.00	0.00	1.17	4100.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4200.00	0.00	1.17	4200.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4300.00	0.00	1.17	4300.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4400.00	0.00	1.17	4400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4500.00	0.00	1.17	4500.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4600.00	0.00	1.17	4600.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4700.00	0.00	1.17	4700.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4800.00	0.00	1.17	4800.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
4900.00	0.00	1.17	4900.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5000.00	0.00	1.17	5000.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5100.00	0.00	1.17	5100.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5200.00	0.00	1.17	5200.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5300.00	0.00	1.17	5300.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5400.00	0.00	1.17	5400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5500.00	0.00	1.17	5500.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5600.00	0.00	1.17	5600.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5700.00	0.00	1.17	5700.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5800.00	0.00	1.17	5800.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
5900.00	0.00	1.17	5900.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6000.00	0.00	1.17	6000.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6100.00	0.00	1.17	6100.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6200.00	0.00	1.17	6200.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6300.00	0.00	1.17	6300.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6400.00	0.00	1.17	6400.00	0.00	0.00	0.00	0.00	392835.50	579458.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
6500.00	0.00	1.17	6500.00	0.00	0.00									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
KOP, B-23 12' DLS	7048.50	0.00	1.17	7048.50	0.00	0.00	0.00	392835.50	579455.60	N 32 4 47.73	W 104 12 36.79	0.00	0.00	0.00
	7100.00	6.18	1.17	7059.40	2.77	2.77	0.05	392835.27	579455.68	N 32 4 47.78	W 104 12 36.78	2.77	1.17	12.00
	7200.00	18.18	1.17	7197.47	23.83	23.83	0.49	392859.33	579459.09	N 32 4 47.58	W 104 12 36.78	23.83	1.17	12.00
	7300.00	30.18	1.17	7288.53	64.72	64.70	1.32	392930.20	579459.92	N 32 4 49.37	W 104 12 36.77	64.72	1.17	12.00
	7400.00	42.18	1.17	7309.10	123.64	123.61	2.52	392959.10	579471.12	N 32 4 49.55	W 104 12 36.75	123.64	1.17	12.00
	7500.00	54.18	1.17	7435.67	195.02	197.58	4.04	392933.46	579472.64	N 32 4 49.69	W 104 12 36.74	195.02	1.17	12.00
	7600.00	66.18	1.17	7455.31	284.62	284.66	5.81	393120.03	579474.41	N 32 4 50.54	W 104 12 36.71	284.62	1.17	12.00
	7700.00	78.17	1.17	7515.67	379.64	379.56	7.75	393215.03	579476.35	N 32 4 51.48	W 104 12 36.69	379.64	1.17	12.00
LP	7758.58	80.00	1.17	7526.00	477.60	477.40	9.75	393314.66	579478.35	N 32 4 52.45	W 104 12 36.67	477.50	1.17	12.00
	7800.00	80.00	1.17	7526.00	478.94	478.84	9.78	393314.30	579478.38	N 32 4 52.47	W 104 12 36.67	478.94	1.17	0.00
	7900.00	80.00	1.17	7526.00	578.94	578.82	11.62	393414.27	579450.42	N 32 4 53.48	W 104 12 36.64	578.94	1.17	0.00
	8000.00	80.00	1.17	7526.00	678.94	678.80	13.66	393514.24	579482.48	N 32 4 54.45	W 104 12 36.62	678.94	1.17	0.00
	8100.00	80.00	1.17	7526.00	778.94	778.78	15.90	393614.21	579484.50	N 32 4 55.43	W 104 12 36.59	778.94	1.17	0.00
	8200.00	80.00	1.17	7526.00	878.94	878.76	17.95	393714.18	579486.54	N 32 4 56.42	W 104 12 36.57	878.94	1.17	0.00
	8300.00	80.00	1.17	7526.00	978.94	978.74	19.99	393814.15	579488.59	N 32 4 57.41	W 104 12 36.54	978.94	1.17	0.00
	8400.00	80.00	1.17	7526.00	1078.94	1078.72	22.03	393914.12	579490.63	N 32 4 58.40	W 104 12 36.52	1078.94	1.17	0.00
	8500.00	80.00	1.17	7526.00	1178.94	1178.70	24.07	394014.09	579492.67	N 32 4 59.39	W 104 12 36.50	1178.94	1.17	0.00
	8600.00	80.00	1.17	7526.00	1278.94	1278.68	26.11	394114.06	579494.71	N 32 5 0.38	W 104 12 36.47	1278.94	1.17	0.00
	8700.00	80.00	1.17	7526.00	1378.94	1378.66	28.15	394214.03	579496.75	N 32 5 1.37	W 104 12 36.44	1378.94	1.17	0.00
	8800.00	80.00	1.17	7526.00	1478.94	1478.64	30.19	394314.00	579498.79	N 32 5 2.38	W 104 12 36.41	1478.94	1.17	0.00
	8900.00	80.00	1.17	7526.00	1578.94	1578.62	32.23	394413.97	579500.83	N 32 5 3.35	W 104 12 36.39	1578.94	1.17	0.00
	9000.00	80.00	1.17	7526.00	1678.94	1678.59	34.27	394513.94	579502.87	N 32 5 4.34	W 104 12 36.36	1678.94	1.17	0.00
	9100.00	80.00	1.17	7526.00	1778.94	1778.57	36.31	394613.91	579504.91	N 32 5 5.33	W 104 12 36.34	1778.94	1.17	0.00
	9200.00	80.00	1.17	7526.00	1878.94	1878.55	38.35	394713.88	579506.95	N 32 5 6.32	W 104 12 36.31	1878.94	1.17	0.00
	9300.00	80.00	1.17	7526.00	1978.94	1978.53	40.39	394813.85	579508.99	N 32 5 7.31	W 104 12 36.29	1978.94	1.17	0.00
	9400.00	80.00	1.17	7526.00	2078.94	2078.51	42.43	394913.82	579511.03	N 32 5 8.30	W 104 12 36.26	2078.94	1.17	0.00
	9500.00	80.00	1.17	7526.00	2178.94	2178.49	44.47	395013.79	579513.06	N 32 5 9.29	W 104 12 36.24	2178.94	1.17	0.00
	9600.00	80.00	1.17	7526.00	2278.94	2278.47	46.51	395113.76	579515.10	N 32 5 10.27	W 104 12 36.21	2278.94	1.17	0.00
	9700.00	80.00	1.17	7526.00	2378.94	2378.45	48.55	395213.73	579517.14	N 32 5 11.26	W 104 12 36.19	2378.94	1.17	0.00
	9800.00	80.00	1.17	7526.00	2478.94	2478.43	50.59	395313.70	579519.18	N 32 5 12.25	W 104 12 36.16	2478.94	1.17	0.00
	9900.00	80.00	1.17	7526.00	2578.94	2578.41	52.62	395413.67	579521.22	N 32 5 13.24	W 104 12 36.14	2578.94	1.17	0.00
	10000.00	80.00	1.17	7526.00	2678.94	2678.39	54.66	395513.64	579523.26	N 32 5 14.23	W 104 12 36.11	2678.94	1.17	0.00
	10100.00	80.00	1.17	7526.00	2778.94	2778.37	56.70	395613.61	579525.30	N 32 5 15.22	W 104 12 36.09	2778.94	1.17	0.00
	10200.00	80.00	1.17	7526.00	2878.94	2878.35	58.74	395713.58	579527.33	N 32 5 16.21	W 104 12 36.06	2878.94	1.17	0.00
	10300.00	80.00	1.17	7526.00	2978.94	2978.32	60.78	395813.55	579529.37	N 32 5 17.20	W 104 12 36.04	2978.94	1.17	0.00
	10400.00	80.00	1.17	7526.00	3078.94	3078.30	62.81	395913.52	579531.41	N 32 5 18.19	W 104 12 36.01	3078.94	1.17	0.00
	10500.00	80.00	1.17	7526.00	3178.94	3178.28	64.85	396013.49	579533.45	N 32 5 19.18	W 104 12 35.99	3178.94	1.17	0.00
	10600.00	80.00	1.17	7526.00	3278.94	3278.26	66.89	396113.46	579535.48	N 32 5 20.17	W 104 12 35.96	3278.94	1.17	0.00
	10700.00	80.00	1.17	7526.00	3378.94	3378.24	68.93	396213.43	579537.52	N 32 5 21.16	W 104 12 35.94	3378.94	1.17	0.00
	10800.00	80.00	1.17	7526.00	3478.94	3478.22	70.97	396313.40	579539.56	N 32 5 22.15	W 104 12 35.91	3478.94	1.17	0.00
	10900.00	80.00	1.17	7526.00	3578.94	3578.20	73.00	396413.37	579541.59	N 32 5 23.14	W 104 12 35.89	3578.94	1.17	0.00
	11000.00	80.00	1.17	7526.00	3678.94	3678.18	75.04	396513.34	579543.63	N 32 5 24.12	W 104 12 35.86	3678.94	1.17	0.00
	11100.00	80.00	1.17	7526.00	3778.94	3778.16	77.07	396613.31	579545.67	N 32 5 25.11	W 104 12 35.84	3778.94	1.17	0.00
	11200.00	80.00	1.17	7526.00	3878.94	3878.14	79.11	396713.28	579547.70	N 32 5 26.10	W 104 12 35.81	3878.94	1.17	0.00
	11300.00	80.00	1.17	7526.00	3978.94	3978.12	81.15	396813.25	579549.74	N 32 5 27.09	W 104 12 35.79	3978.94	1.17	0.00
	11400.00	80.00	1.17	7526.00	4078.94	4078.10	83.18	396913.22	579551.78	N 32 5 28.08	W 104 12 35.76	4078.94	1.17	0.00
	11500.00	80.00	1.17	7526.00	4178.94	4178.08	85.22	397013.19	579553.81	N 32 5 29.07	W 104 12 35.74	4178.94	1.17	0.00
	11600.00	80.00	1.17	7526.00	4278.94	4278.06	87.26	397113.16	579555.85	N 32 5 30.06	W 104 12 35.71	4278.94	1.17	0.00
	11700.00	80.00	1.17	7526.00	4378.94	4378.03	89.29	397213.13	579557.88	N 32 5 31.05	W 104 12 35.69	4378.94	1.17	0.00
	11800.00	80.00	1.17	7526.00	4478.94	4478.01	91.33	397313.10	579559.92	N 32 5 32.04	W 104 12 35.66	4478.94	1.17	0.00
	11900.00	80.00	1.17	7526.00	4578.94	4577.99	93.36	397413.07	579561.95	N 32 5 33.03	W 104 12 35.64	4578.94	1.17	0.00
Cottonwood Hills 32 State #4H - PBHL	11971.05	80.00	1.17	7526.00	4649.99	4649.02	94.81	397454.10	579563.40	N 32 5 33.73	W 104 12 35.62	4649.99	1.17	0.00

Survey Type: Dof Plan

Survey Error Model: ISC/ISA Rev 0 *** 3-D 65% Confidence 2.7655 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	24.000	1/100.000	30.000	30.000	SLB_UNKNOWN/Depth Only	Original Borehole / Cimarex Cottonwood Hills 32 State #4H
	24.000	11971.045	1/100.000	30.000	30.000	SLB_UNKNOWN	Original Borehole / Cimarex Cottonwood Hills 32 State #4H

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 August 1, 2011

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. 30-015-
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. 39082
3. Address of Operator 600 N. Marienfeld Street, Suite 600; Midland, TX 79701		7. Lease Name or Unit Agreement Name Cottonwood Hills 32 State Com
4. Well Location Unit Letter <u>O</u> : <u>330</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>32</u> Township <u>25S</u> Range <u>27E</u> NMPM EDDY County		8. Well Number 4H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3210' GR		9. OGRID Number 215099
		10. Pool name or Wildcat Wildcat G-03 S252636M; Bone Spring

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Drilled with Closed Loop System ☒ 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.

During this procedure we plan to use the closed-loop system with a steel tank and haul contents to the required disposal, per OCD Rule 19.15.17."

Spud Date:

Rig Release Date:

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

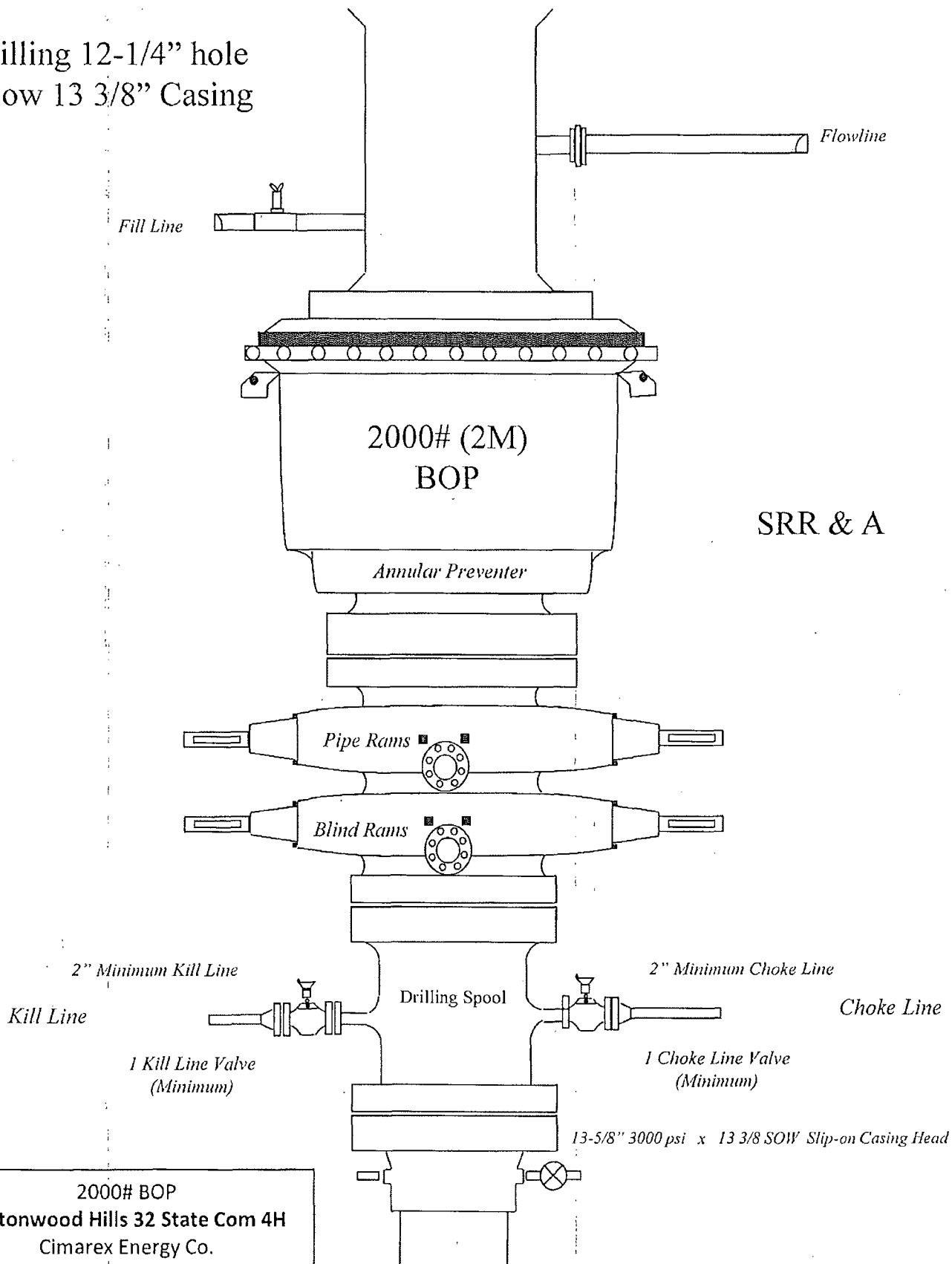
SIGNATURE Michelle Chappell TITLE Regulatory Technician DATE 08/13/2013

Type or print name Michelle Chappell E-mail address: mchappell@cimarex.com PHONE: 432-620-1959
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

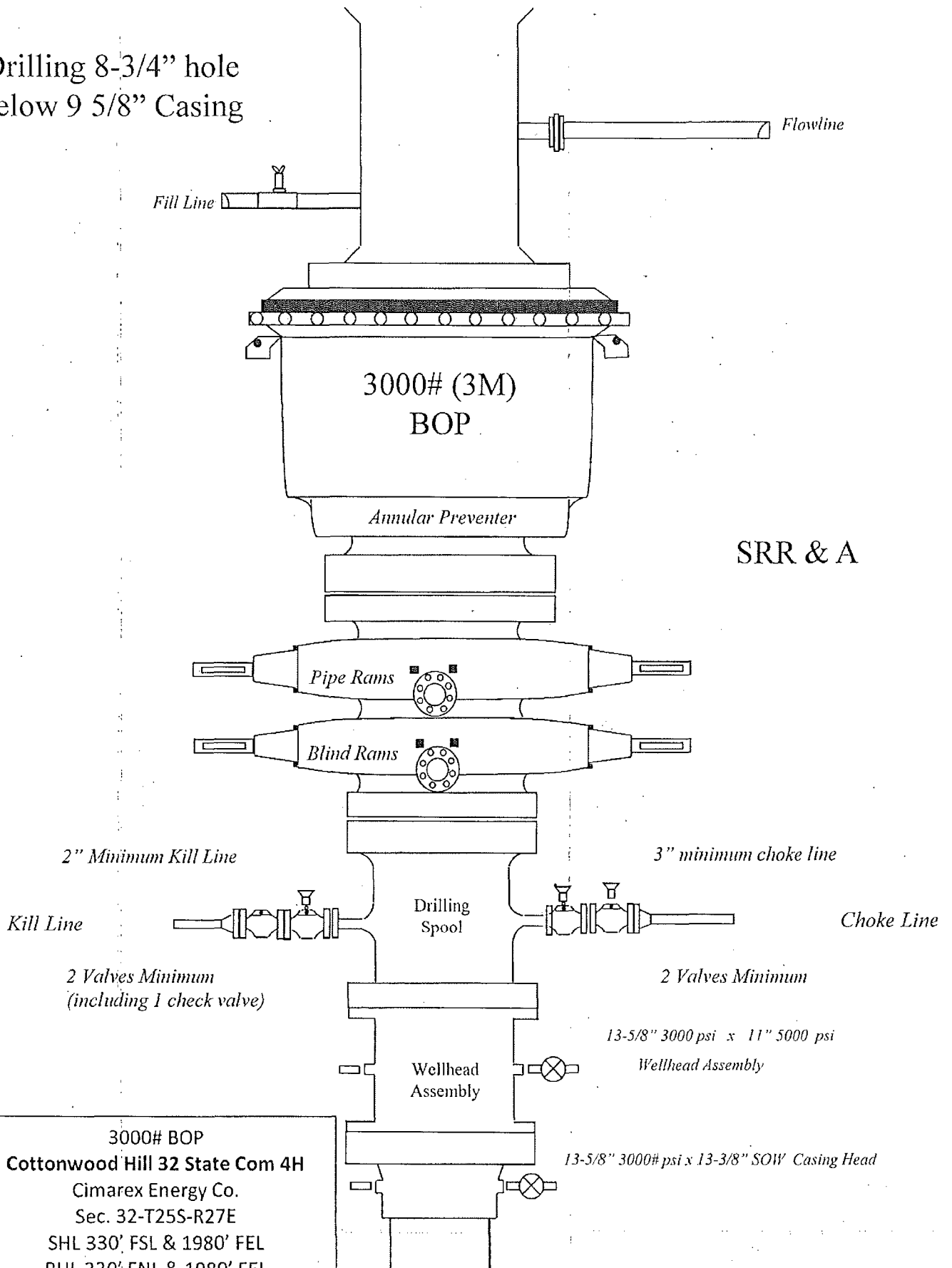
Conditions of Approval (if any):

Drilling 12-1/4" hole
below 13 3/8" Casing



2000# BOP
Cottonwood Hills 32 State Com 4H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 1980' FEL
BHL 330' FNL & 1980' FEL
Eddy County, NM

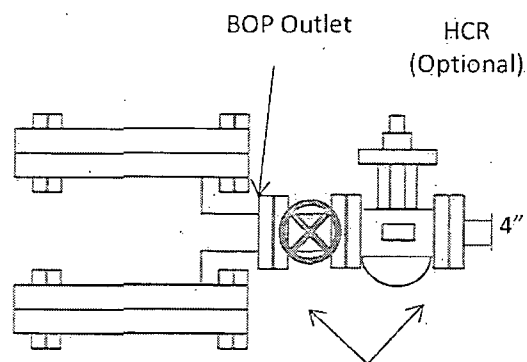
Drilling 8-3/4" hole
below 9 5/8" Casing



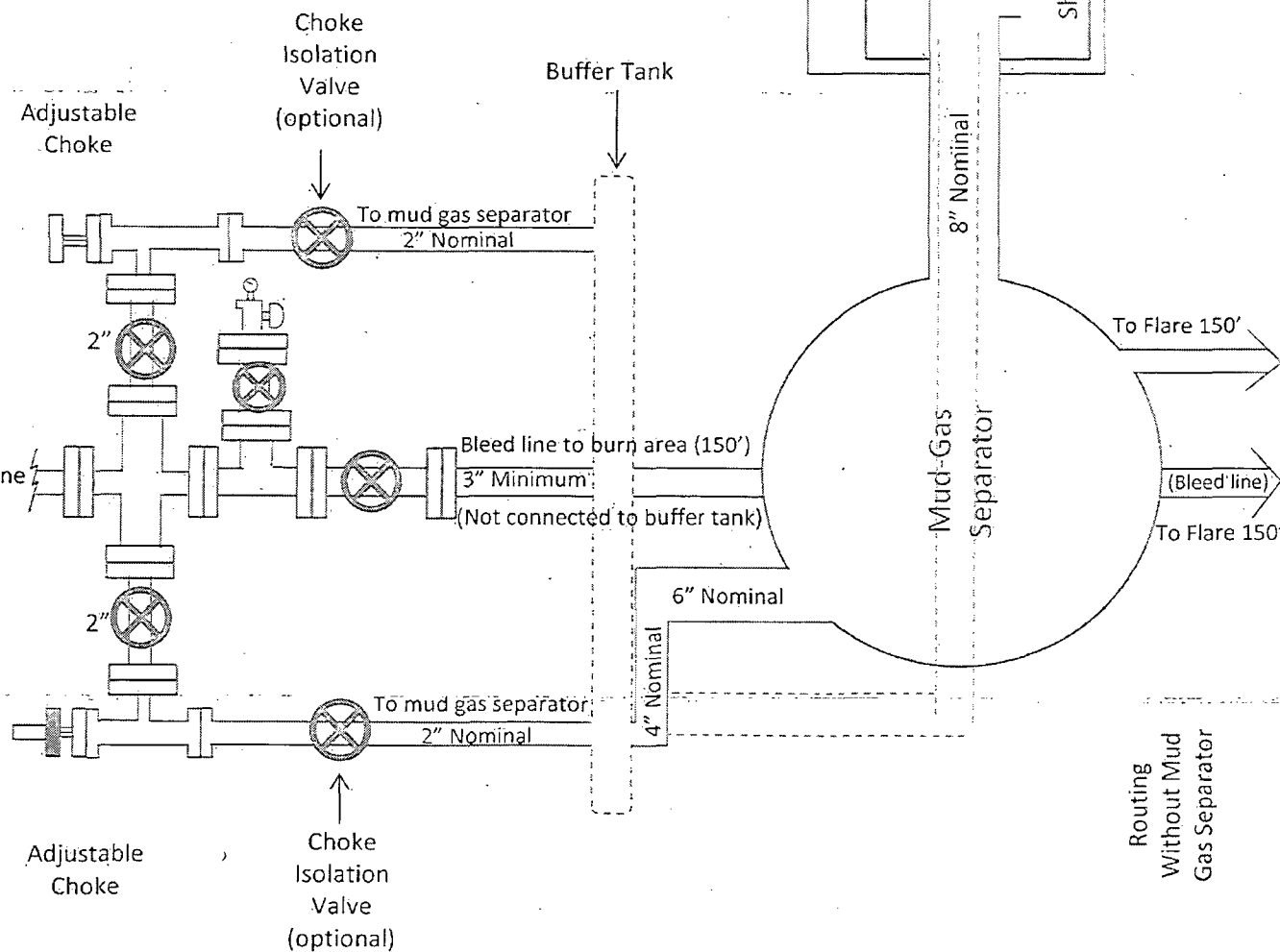
3000# BOP
Cottonwood Hill 32 State Com 4H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 1980' FEL
BHL 330' FNL & 1980' FEL
Eddy County, NM

Drilling Operations Choke Manifold 2M/3M Service

Choke Manifold Diagram
Cottonwood Hills 32 State Com 4H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 1980' FEL
BHL 330' FNL & 1980' FEL
Eddy County, NM.



2M: 1 Valve Minimum
3M: 2 Valves Minimum
HCR Valve is optional



Routing
Without Mud
Gas Separator