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Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6181 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1203 Fax: (505) 746-0720

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) 476-3469 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

NMOC D ARTESIA

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015- 41603	Pool Code 97818	Pool Name Wildcat G-03 S252636M; Bone Spring
Property Code 39082	Property Name COTTONWOOD HILLS 32 STATE COM	Well Number 3H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3229

Surface Location

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

Bottom Hole Location If Different From Surface

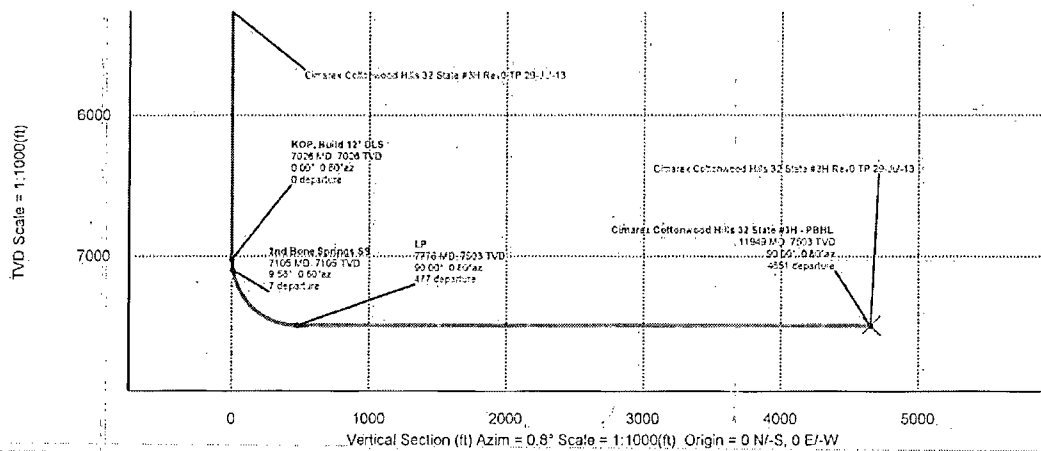
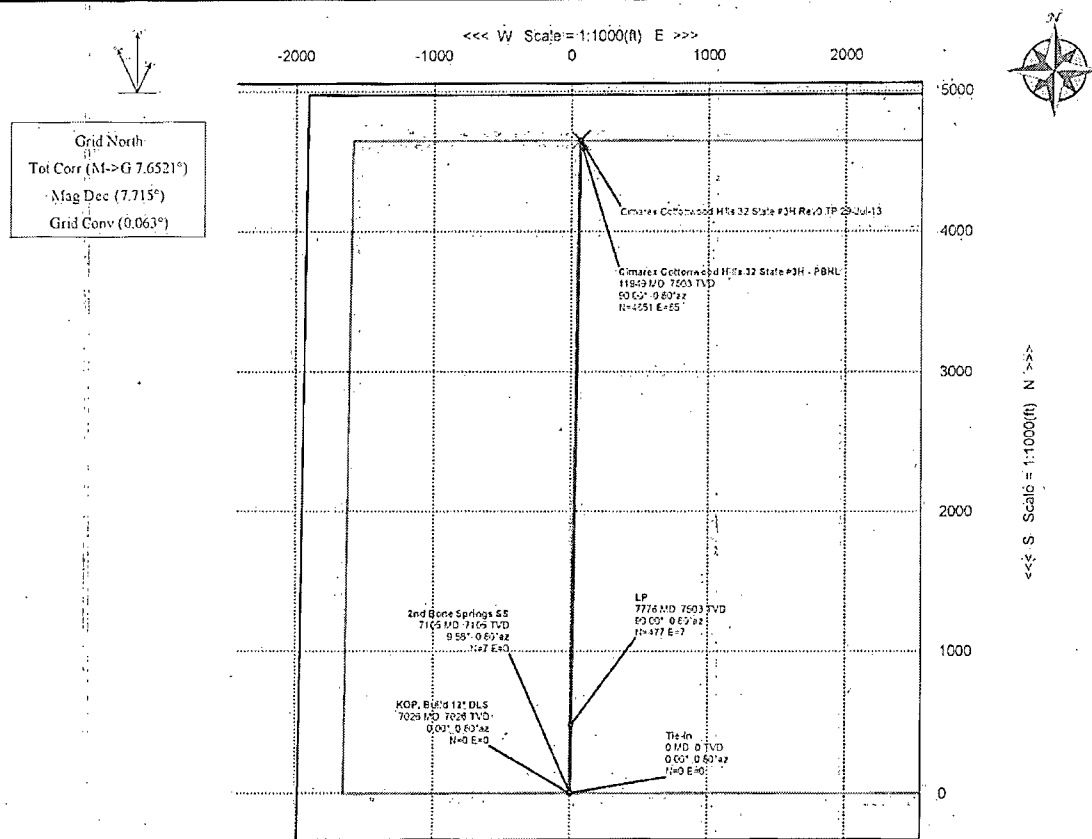
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	25 S	27 E		330	NORTH	1980	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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 1980' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°05'33.73" Long - W 104°12'51.61" NMSPC - N 397483.4 E 578187.5 (NAD-83) N: 395153.49 E: 576181.32 NAD 83 4651.6' N: 397815.20 E: 578081.20 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> 08/07/2013 Signature Date Michelle Chappell Printed Name mchappell@cimarex.com Email Address
SURFACE LOCATION Lat - N 32°04'47.72" Long - W 104°12'52.42" NMSPC - N 392833.3 E 578122.7 (NAD-83) 1980' N: 392500.33 E: 576137.39 NAD 83 3239.6' 3235.9' N: 392504.25 E: 576787.57 NAD 83 N: 392508.02 E: 581441.66 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. APR 9 2013 Date Surveyed Signature of Surveyor Professional Land Surveyor W.O. No. 28498 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28498

WELL	Cottonwood Hills 32-State #3H	FIELD	NM Eddy County (NAD 83)	STATION	Cimarex Cottonwood Hills 32
Operator/Owner Map Date State	20 100000000 10/1/2011 NM	100000000 10/1/2011 NM	100000000 10/1/2011 NM	100000000 10/1/2011 NM	100000000 10/1/2011 NM



		Critical Points						
<u>Critical Point</u>	<u>MD</u>	<u>INCL</u>	<u>AZIM</u>	<u>TYD</u>	<u>YSEC</u>	<u>N(+) / S(-)</u>	<u>E(+) / W(-)</u>	<u>DLS</u>
Tie-In	0.00	0.00	0.80	0.00	0.00	0.00	0.00	
KOP, Build 12° DLS	7025.50	0.00	0.80	7025.50	0.00	0.00	0.00	0.00
2nd Bone Springs SS	7105.37	9.58	0.80	7105.00	6.66	6.66	0.09	12.00
LP	7775.56	90.00	0.80	7503.00	477.50	477.45	6.67	12.00
Cimarex Cottonwood Hills 32° Sate #3H - PBHL	11949.03	90.00	0.80	7503.00	4650.98	4650.52	64.81	0.00

Cimarex Cottonwood Hills 32 State #3H Rev0 TP 29-Jul-13 Proposal Report

(Def Plan)

Report Date:	July 29, 2013 - 01:07 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	0.765° (654 North)
Field:	NW Eddy County (H4D 83)	Vertical Section Origin:	0.660 R, 0.000 H
Structure / Slot:	Cimarex Cottonwood Hills 32 State #3H / Cottonwood Hills 32 State #3H	TVD Reference Datum:	RKB
Well:	Cottonwood Hills 32 State #3H	TVD Reference Elevation:	3254.000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3229.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.715°
Survey Name:	Cimarex Cottonwood Hills 32 State #3H Rev0 TP 29-Jul-13	Total Field Strength:	4320.955 nT
Survey Date:	July 29, 2013	Magnetic Dip Angle:	59.838°
Tort / AHD / GDI / ERO Ratio:	99.024° / 4650.978 ft / 5.824 / 0.620	Declination Date:	July 29, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGM2012
Location Lat / Long:	N 32° 4' 47.72182" W 104° 12' 52.42542"	North Reference:	Grid North
Location Grid N/E Y/X:	N 392833 300 RUS, E 578122 700 RUS	Grid Convergence Used:	0.0631°
CRS Grid Convergence Angle:	0.0631°	Total Corr Mag North-Grid North:	7.6521°
Grid Scale Factor:	0.99991064	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (NUS)	Easting (EUS)	Latitude (NUS ° ' ")	Longitude (EW ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
Tie-in	0.00	0.00	0.00	0.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	N/A
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	600.00	0.00	0.00	600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	800.00	0.00	0.00	800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
	6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	392833.30	578122.70	N 32° 4' 47.72" W 104° 12' 52.43"		0.00	0.00	0.00
</														

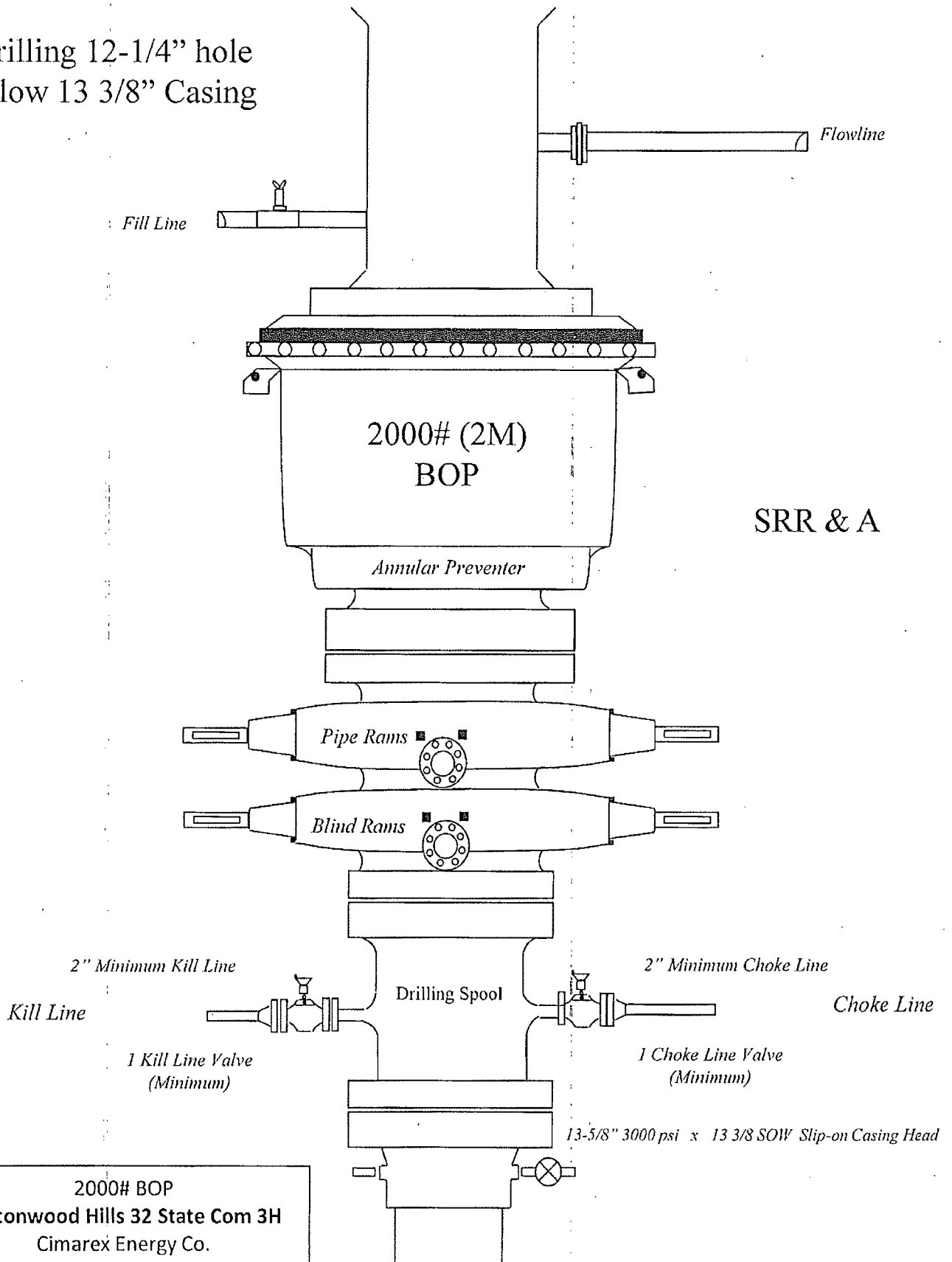
Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NIS (ft)	EW (ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
KOP, Buid 12' DLS	7025.50	0.00	0.00	7025.50	0.00	0.00	0.00	392833.30	578122.70	N 32 4 47.72	W 104 12 52.43	0.00	0.00	0.00
	7100.00	8.94	0.80	7099.70	5.60	5.60	0.09	392835.10	578122.78	N 32 4 47.78	W 104 12 52.43	5.80	0.60	12.00
2nd Bone Springs SS	7163.37	9.58	0.80	7105.00	6.66	6.66	0.69	392839.95	578122.79	N 32 4 47.79	W 104 12 52.43	6.66	0.60	12.00
	7200.00	20.94	0.80	7156.14	31.53	31.53	0.44	392864.83	578123.14	N 32 4 48.03	W 104 12 52.42	31.53	0.60	12.00
	7300.00	32.94	0.80	7285.13	76.75	76.74	1.07	392910.04	578123.77	N 32 4 48.48	W 104 12 52.42	76.75	0.60	12.00
	7400.00	44.94	0.80	7392.77	139.48	139.47	1.95	392972.78	578124.65	N 32 4 49.10	W 104 12 52.40	139.48	0.60	12.00
	7500.00	56.94	0.80	7425.67	218.99	218.97	3.03	393050.25	578125.73	N 32 4 48.87	W 104 12 52.39	218.99	0.60	12.00
	7600.00	68.93	0.60	7471.09	305.87	305.84	4.27	393139.12	578126.47	N 32 4 50.75	W 104 12 52.38	305.87	0.60	12.00
	7700.00	80.93	0.60	7497.03	402.28	402.22	5.62	393235.48	578128.32	N 32 4 51.70	W 104 12 52.36	402.26	0.60	12.00
LP	7775.56	90.00	0.80	7503.00	477.50	477.45	6.67	393310.71	578129.37	N 32 4 52.45	W 104 12 52.35	477.50	0.60	12.00
	7800.00	90.00	0.80	7503.00	501.94	501.90	7.01	393335.15	578129.71	N 32 4 52.69	W 104 12 52.34	501.94	0.60	0.00
	7900.00	90.00	0.80	7503.00	601.94	601.89	8.49	393435.13	578131.10	N 32 4 53.68	W 104 12 52.32	601.94	0.60	0.00
	8000.00	90.00	0.80	7503.00	701.94	701.88	9.80	393535.11	578132.50	N 32 4 54.87	W 104 12 52.31	701.94	0.60	0.00
	8100.00	90.00	0.80	7503.00	801.94	801.87	11.20	393635.09	578133.80	N 32 4 55.66	W 104 12 52.29	801.94	0.60	0.00
	8200.00	90.00	0.80	7503.00	901.94	901.88	12.59	393735.07	578135.20	N 32 4 56.65	W 104 12 52.27	901.94	0.60	0.00
	8300.00	90.00	0.80	7503.00	1001.94	1001.85	13.99	393835.06	578136.69	N 32 4 57.64	W 104 12 52.25	1001.94	0.60	0.00
	8400.00	90.00	0.80	7503.00	1101.94	1101.84	15.38	393935.04	578138.08	N 32 4 58.62	W 104 12 52.24	1101.94	0.60	0.00
	8500.00	90.00	0.80	7503.00	1201.94	1201.83	16.78	394035.02	578139.40	N 32 4 59.61	W 104 12 52.22	1201.94	0.60	0.00
	8600.00	90.00	0.80	7503.00	1301.94	1301.82	18.17	394135.00	578140.87	N 32 5 0.60	W 104 12 52.20	1301.94	0.60	0.00
	8700.00	90.00	0.80	7503.00	1401.94	1401.81	19.57	394234.98	578142.27	N 32 5 1.59	W 104 12 52.18	1401.94	0.60	0.00
	8800.00	90.00	0.80	7503.00	1501.94	1501.80	20.98	394334.96	578143.66	N 32 5 2.58	W 104 12 52.17	1501.94	0.60	0.00
	8900.00	90.00	0.80	7503.00	1601.94	1601.79	22.38	394434.94	578145.06	N 32 5 3.57	W 104 12 52.15	1601.94	0.60	0.00
	9000.00	90.00	0.80	7503.00	1701.94	1701.78	23.75	394534.92	578146.45	N 32 5 4.56	W 104 12 52.13	1701.94	0.60	0.00
	9100.00	90.00	0.80	7503.00	1801.94	1801.77	25.15	394634.90	578147.84	N 32 5 5.55	W 104 12 52.11	1801.94	0.60	0.00
	9200.00	90.00	0.80	7503.00	1901.94	1901.78	26.54	394734.89	578149.24	N 32 5 6.54	W 104 12 52.10	1901.94	0.60	0.00
	9300.00	90.00	0.80	7503.00	2001.94	2001.75	27.93	394834.87	578150.63	N 32 5 7.53	W 104 12 52.09	2001.94	0.60	0.00
	9400.00	90.00	0.80	7503.00	2101.94	2101.74	29.33	394934.85	578152.03	N 32 5 8.52	W 104 12 52.08	2101.94	0.60	0.00
	9500.00	90.00	0.80	7503.00	2201.94	2201.73	30.72	395034.83	578153.42	N 32 5 9.51	W 104 12 52.04	2201.94	0.60	0.00
	9600.00	90.00	0.80	7503.00	2301.94	2301.72	32.11	395134.81	578154.81	N 32 5 10.50	W 104 12 52.03	2301.94	0.60	0.00
	9700.00	90.00	0.80	7503.00	2401.94	2401.71	33.51	395234.79	578156.21	N 32 5 11.49	W 104 12 52.01	2401.94	0.60	0.00
	9800.00	90.00	0.80	7503.00	2501.94	2501.70	34.90	395334.77	578157.60	N 32 5 12.48	W 104 12 51.99	2501.94	0.60	0.00
	9900.00	90.00	0.80	7503.00	2601.94	2601.69	36.29	395434.75	578158.99	N 32 5 13.47	W 104 12 51.97	2601.94	0.60	0.00
	10000.00	90.00	0.80	7503.00	2701.94	2701.68	37.69	395534.74	578160.38	N 32 5 14.46	W 104 12 51.96	2701.94	0.60	0.00
	10100.00	90.00	0.80	7503.00	2801.94	2801.67	39.08	395634.72	578161.78	N 32 5 15.44	W 104 12 51.94	2801.94	0.60	0.00
	10200.00	90.00	0.80	7503.00	2901.94	2901.66	40.47	395734.70	578163.17	N 32 5 16.43	W 104 12 51.92	2901.94	0.60	0.00
	10300.00	90.00	0.80	7503.00	3001.94	3001.65	41.87	395834.68	578164.56	N 32 5 17.42	W 104 12 51.90	3001.94	0.60	0.00
	10400.00	90.00	0.80	7503.00	3101.94	3101.64	43.26	395934.66	578165.95	N 32 5 18.41	W 104 12 51.89	3101.94	0.60	0.00
	10500.00	90.00	0.80	7503.00	3201.94	3201.63	44.65	396034.64	578167.35	N 32 5 19.40	W 104 12 51.87	3201.94	0.60	0.00
	10600.00	90.00	0.80	7503.00	3301.94	3301.62	46.04	396134.62	578168.74	N 32 5 20.39	W 104 12 51.85	3301.94	0.60	0.00
	10700.00	90.00	0.80	7503.00	3401.94	3401.61	47.43	396234.60	578170.13	N 32 5 21.38	W 104 12 51.83	3401.94	0.60	0.00
	10800.00	90.00	0.80	7503.00	3501.94	3501.60	48.83	396334.58	578171.52	N 32 5 22.37	W 104 12 51.82	3501.94	0.60	0.00
	10900.00	90.00	0.80	7503.00	3601.94	3601.59	50.22	396434.57	578172.91	N 32 5 23.36	W 104 12 51.80	3601.94	0.60	0.00
	11000.00	90.00	0.80	7503.00	3701.94	3701.58	51.61	396534.55	578174.30	N 32 5 24.35	W 104 12 51.78	3701.94	0.60	0.00
	11100.00	90.00	0.80	7503.00	3801.94	3801.57	53.00	396634.53	578175.69	N 32 5 25.34	W 104 12 51.76	3801.94	0.60	0.00
	11200.00	90.00	0.80	7503.00	3901.94	3901.56	54.39	396734.51	578177.09	N 32 5 26.33	W 104 12 51.75	3901.94	0.60	0.00
	11300.00	90.00	0.80	7503.00	4001.94	4001.55	55.78	396834.49	578178.48	N 32 5 27.32	W 104 12 51.73	4001.94	0.60	0.00
	11400.00	90.00	0.80	7503.00	4101.94	4101.55	57.17	396934.47	578179.87	N 32 5 28.31	W 104 12 51.71	4101.94	0.60	0.00
	11500.00	90.00	0.80	7503.00	4201.94	4201.54	58.56	397034.45	578181.26	N 32 5 29.30	W 104 12 51.69	4201.94	0.60	0.00
	11600.00	90.00	0.80	7503.00	4301.94	4301.53	59.95	397134.43	578182.65	N 32 5 30.29	W 104 12 51.68	4301.94	0.60	0.00
	11700.00	90.00	0.80	7503.00	4401.94	4401.52	61.34	397234.42	578184.04	N 32 5 31.28	W 104 12 51.66	4401.94	0.60	0.00
	11800.00	90.00	0.80	7503.00	4501.94	4501.51	62.73	397334.40	578185.43	N 32 5 32.27	W 104 12 51.64	4501.94	0.60	0.00
	11900.00	90.00	0.80	7503.00	4601.94	4601.50	64.12	397434.38	578186.82	N 32 5 33.25	W 104 12 51.63	4601.94	0.60	0.00
Cimarex Cottonwood Hills 32 State #3H - FBHL	11949.03	90.00	0.80	7503.00	4650.98	4650.52	64.81	397483.40	578187.50	N 32 5 33.74	W 104 12 51.62	4650.98	0.60	0.00

Survey Type: Def Plan

Survey Error Model: ISCW3A Rev 0 *** 3-D 55.00% Confidence 2.7555 sigma
Survey Program:

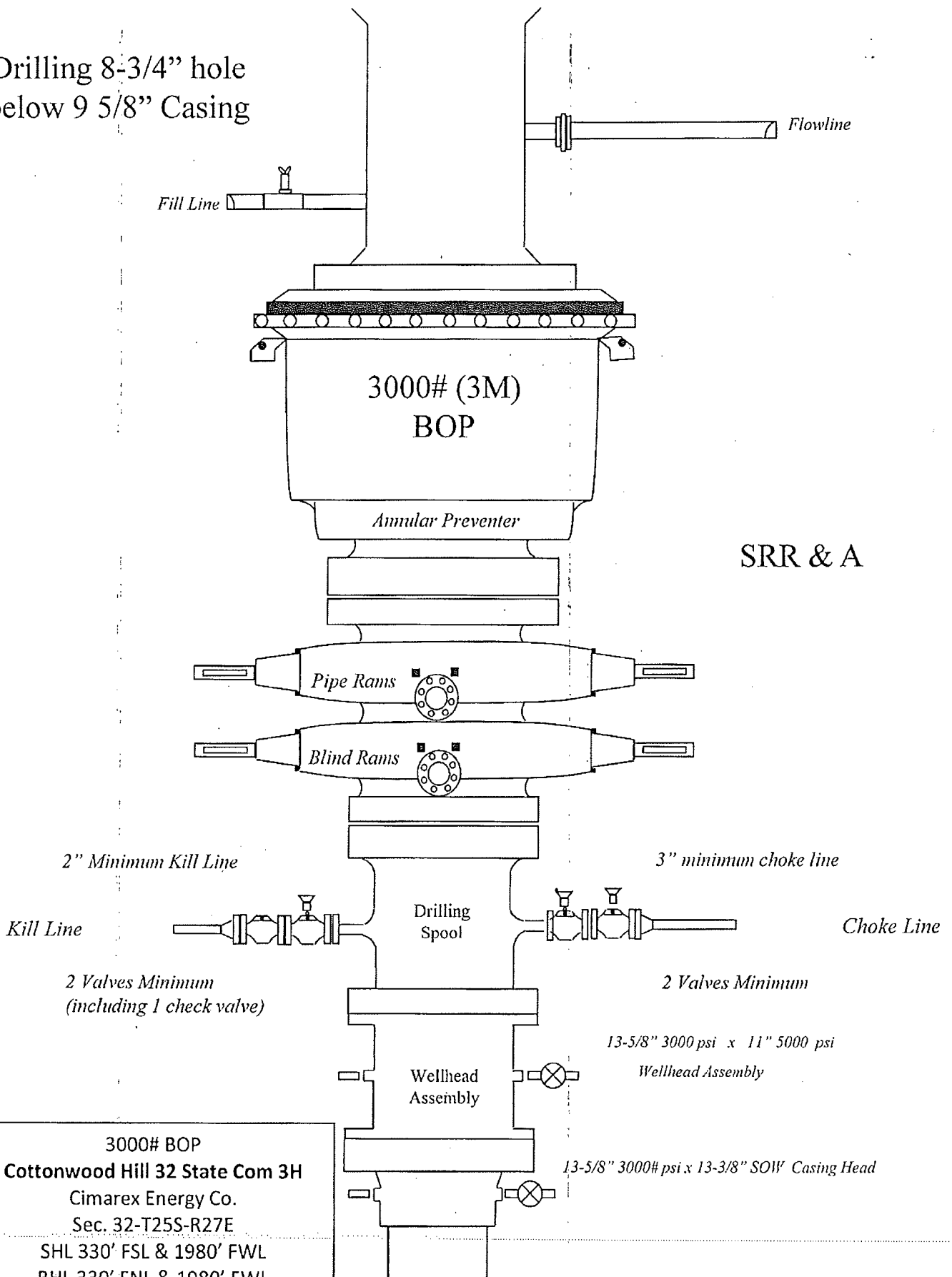
Description	MD From (ft)	MD To (ft)	EDU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	25.000	1/100.000	30.000	30.000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Cimarex Cottonwood Hills 32 State #3H Rev'd TP 20-Jul-13
	25.000	7025.000	1/100.000	30.000	30.000	SLB_NSG+MSHOT	Original Borehole / Cimarex Cottonwood Hills 32 State #3H
	7025.000	11949.032	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Cottonwood Hills 32 State #3H

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



2000# BOP
Cottonwood Hills 32 State Com 3H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 1980' FWL
BHL 330' FNL & 1980' FWL
Eddy County, NM

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



3000# BOP
Cottonwood Hill 32 State Com 3H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 1980' FWL
BHL 330' FNL & 1980' FWL
Eddy County, NM