

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

WELL API NO. 30-015- <u>41628</u>	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No. 39082	
7. Lease Name or Unit Agreement Name Cottonwood Hills 32 State Com	
8. Well Number 5H.	
9. OGRID Number 215099	
10. Pool name or Wildcat Wildcat G-03 S252636M; Bone Spring	

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
Cimarex Energy Co.

3. Address of Operator
600 N. Marienfeld Street, Suite 600; Midland, TX 79701

4. Well Location
Unit Letter P : 330 feet from the South line and 330 feet from the East line
Section 32 Township 25S Range 27E NMPM EDDY County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3159' GR

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 08/26/2013

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

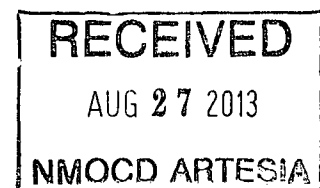
For State Use Only

APPROVED BY: [Signature] TITLE Asst. Reg. Supervisor DATE 8/27/2013

Conditions of Approval (if any):

www.emnra.state.nm.us

Current forms are available on our
website and should be used when
filing regulatory documents.



DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
Phone (505) 303-0101 Fax: (505) 303-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
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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) 476-3400 Fax: (505) 476-3402

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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- 41628	Pool Code 97818	Pool Name Wildcat G-03 S252636M; Bone Spring
Property Code 39082	Property Name COTTONWOOD HILLS 32 STATE COM	Well Number 5H
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3159

Surface Location

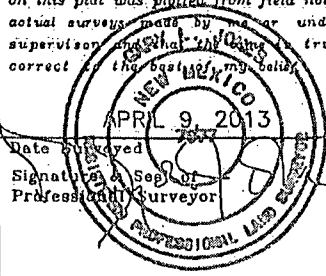
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	32	25 S	27 E	.	330	SOUTH	330	EAST	EDDY

Bottom Hole Location If Different From Surface

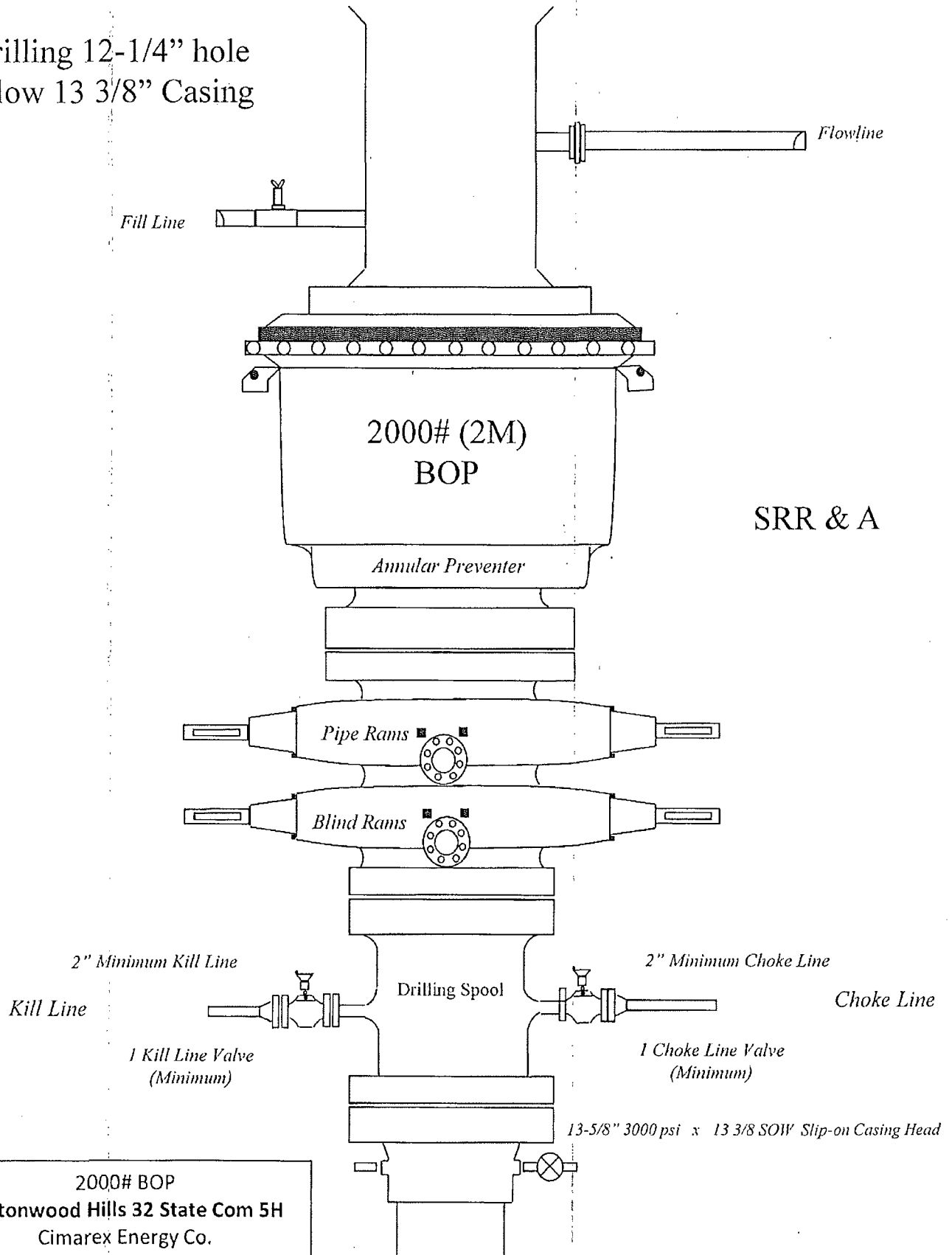
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	25 S	27 E	.	330	NORTH	660	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

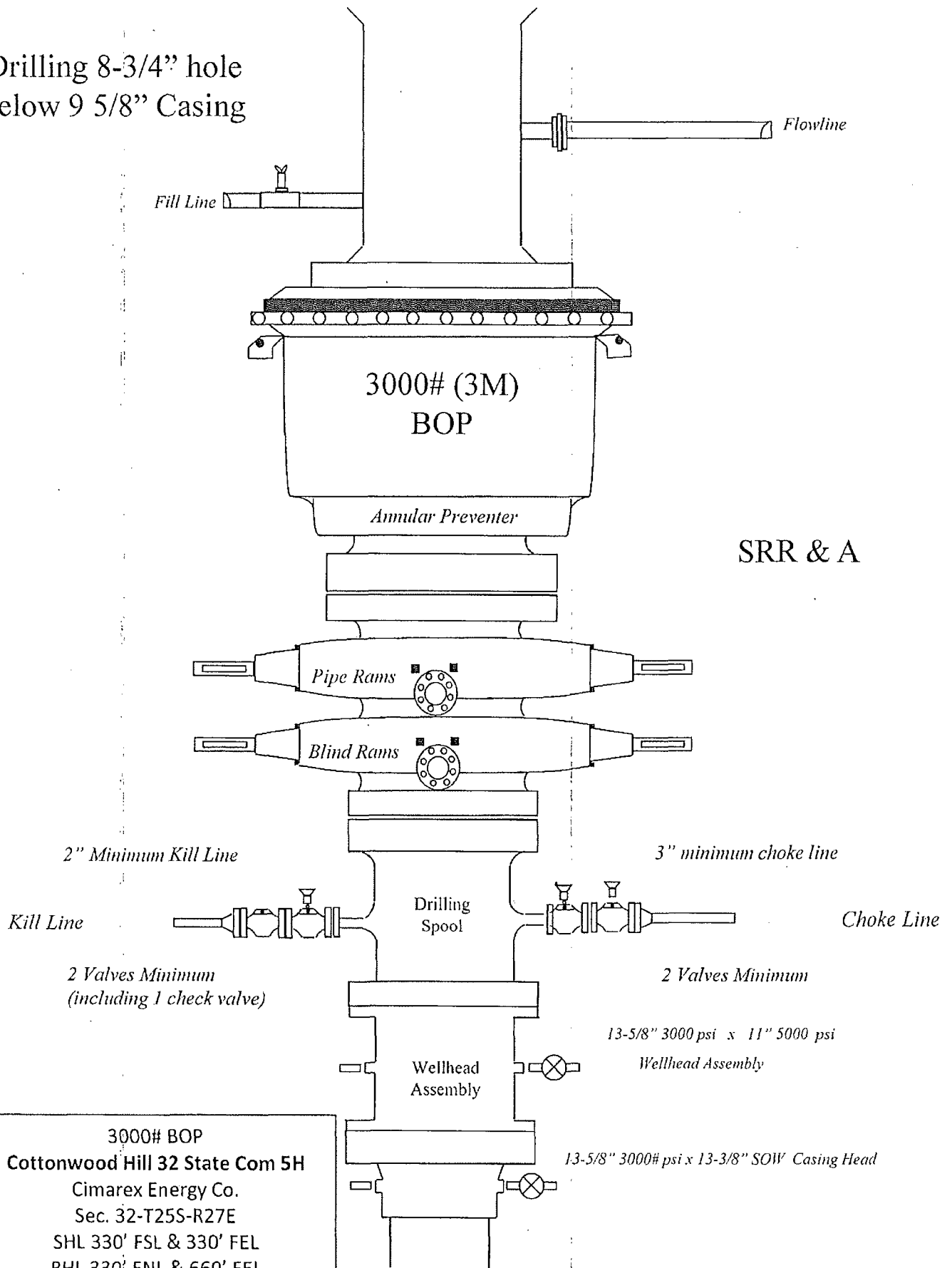
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 397807.71 E: 576211.76 NAD 83	N: 397815.20 E: 576881.20 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> 08/26/2013 Signature Date Michelle Chappell Printed Name mchappell@cimarex.com Email Address
N: 395153.49 E: 576181.32 NAD 83	HOLE LOCATION Lat - N 32°05'33.69" Long - W 104°12'20.28" NAD83 - N 397481.8 E 580883.1 (NAD-83)		
N: 392500.33 E: 576137.39 NAD 83	SURFACE LOCATION Lat - N 32°04'47.73" Long - W 104°12'17.61" NAD83 - N 392837.6 E 581118.3 (NAD-83)		
N: 392504.25 E: 578787.57 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.  Date Surveyed Signature of Prof. Land Surveyor W.O. No. 28500 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28500

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



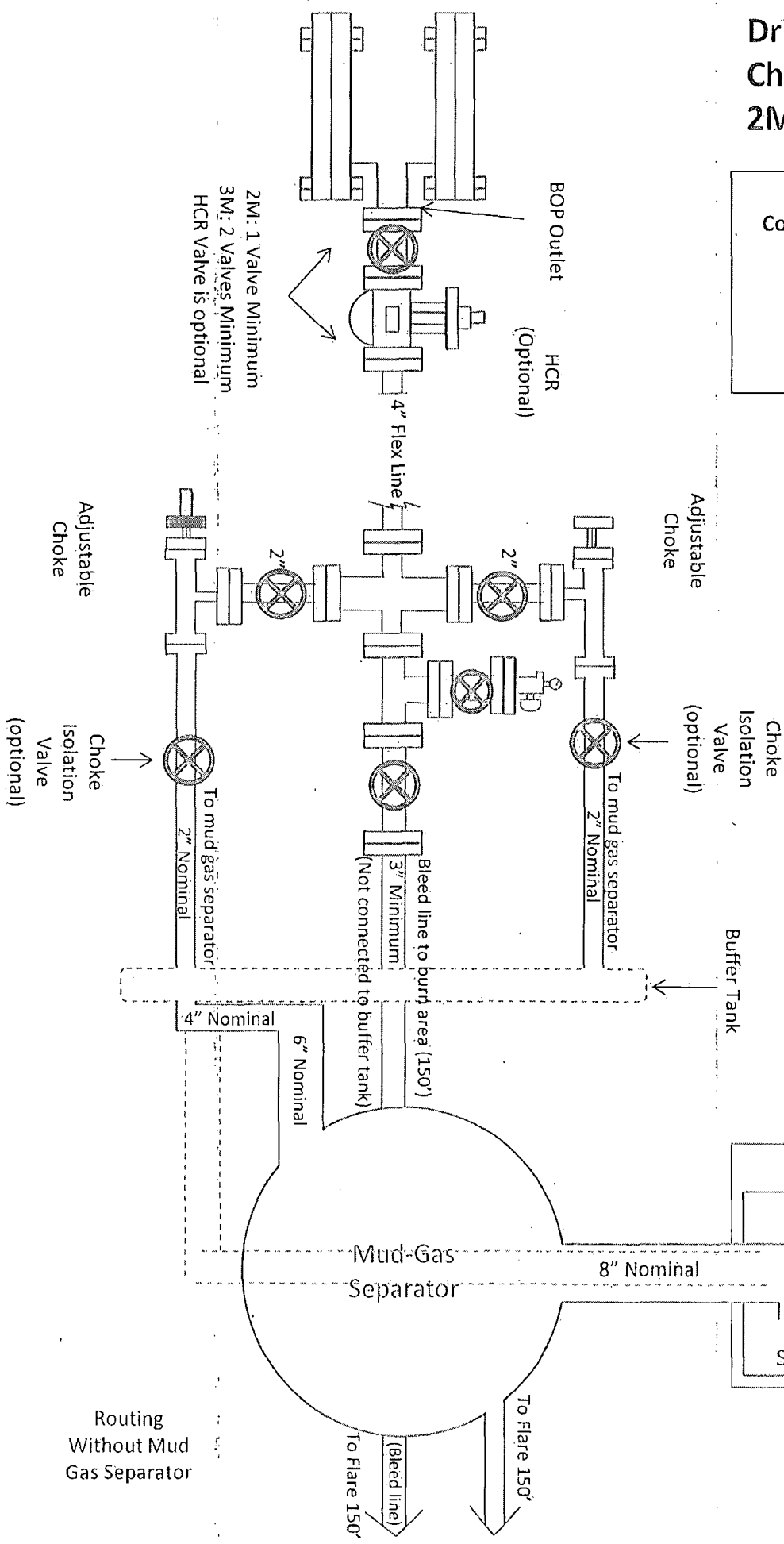
Drilling 8-3/4" hole
below 9 5/8" Casing



3000# BOP
Cottonwood Hill 32 State Com 5H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 330' FEL
BHL 330' FNL & 660' FEL
Eddy County, NM

Drilling Operations Choke Manifold 2M/3M Service

Choke Manifold Diagram
Cottonwood Hills 32 State Com 5H
Cimarex Energy Co.
Sec. 32-T25S-R27E
SHL 330' FSL & 330' FEL
BHL 330' FNL & 660' FEL
Eddy County, NM



Mud Tanks
40'-50' from
wellbore

Mud Tanks

Shaker

Routing
Without Mud
Gas Separator

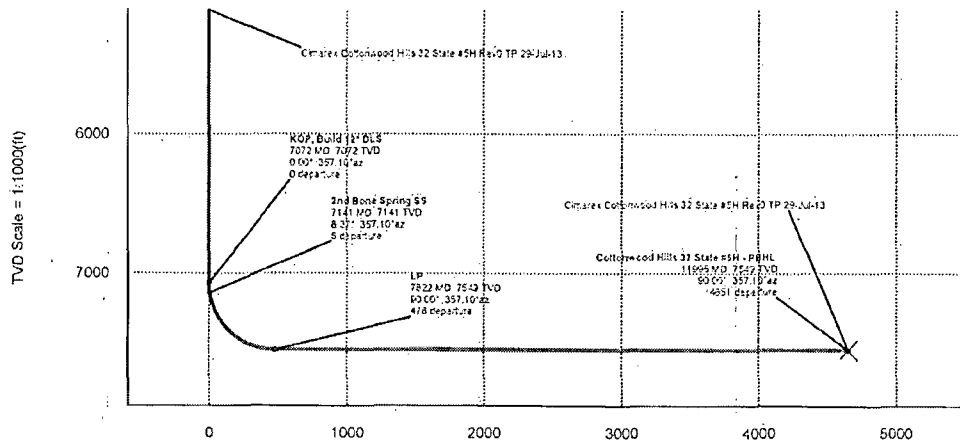
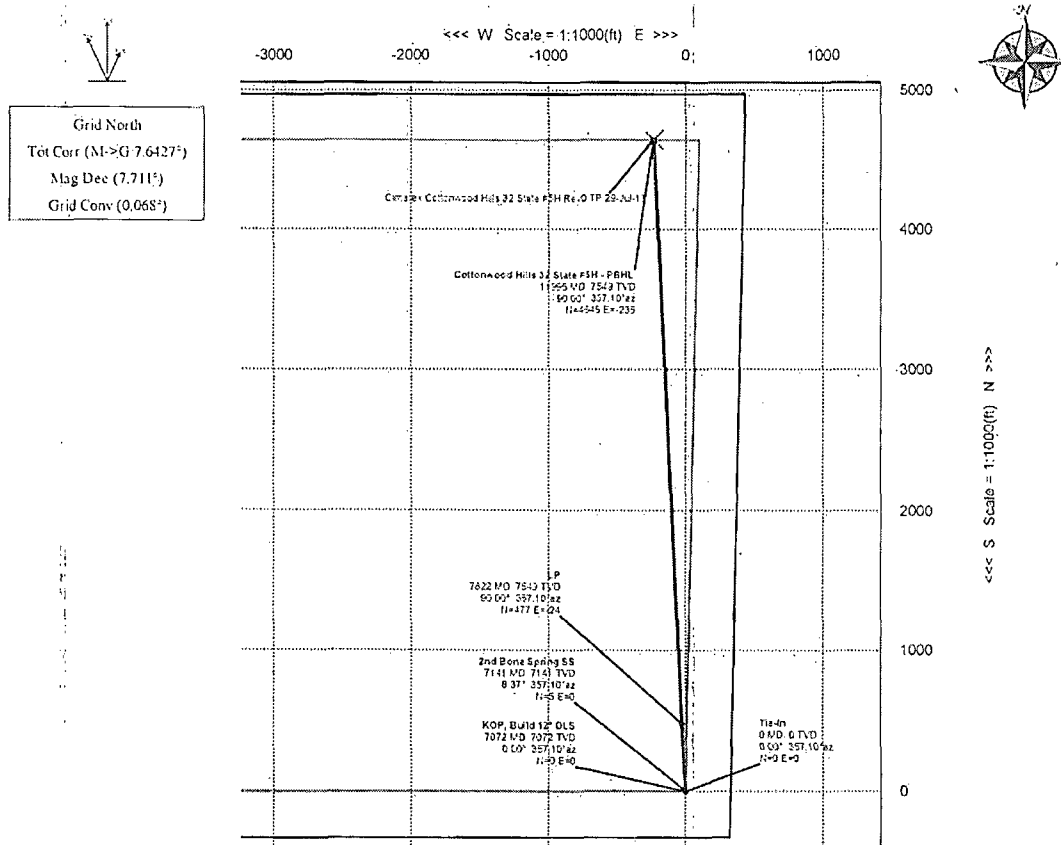
30-015-41628



Cimarex Energy

PATHFINDER
 A Schlumberger Company

WELL	FIELD	STRUCTURE
Cottonwood Hills 32 State #5H	NM Eddy County (NAD 83)	Cimarex Cottonwood Hills 32 S
MAGNETIC DECLINATION MAGN 6.500(2013) D.T. 0.000(2013) MAG DEC 7.711	ELEVATION LAT 32 48 33 LONG 101 54 12 19 ELEV 5813.12 GROUND 5813.12 SURFACE 5813.12	MAGNETIC DECLINATION MAGN 6.500(2013) D.T. 0.000(2013) MAG DEC 7.711



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-In	0.00	0.00	357.10	0.00	0.00	0.00	0.00	
KOP, Build 12° DLS	7071.50	0.00	357.10	7071.50	0.00	0.00	0.00	0.00
2nd Bone Spring SS	7141.25	8.37	357.10	7141.00	5.08	5.08	-0.26	12.00
LP	7821.56	90.00	357.10	7549.00	477.50	476.89	-24.16	12.00
Cottonwood Hills 32 State #5H - PBHL	11994.63	90.00	357.10	7549.00	4650.58	4644.62	-235.22	0.00

Cimarex Cottonwood Hills 32 State #5H Rev0 TP 29-Jul-13 Proposal Report

(Def Plan)

Report Date:	July 29, 2013 - 01:47 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	357.101 ° (Grid North)
Field:	N.M. Eddy County (NAD 83)	Vertical Section Origin:	0.000 N, 0.000 E
Structure / Slot:	Cimarex Cottonwood Hills 32 State #5H / Cottonwood Hills 32 State #5H	TVD Reference Datum:	RKB
Well:	Cottonwood Hills 32 State #5H	TVD Reference Elevation:	3183.000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3159.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.711 °
Survey Name:	Cimarex Cottonwood Hills 32 State #5H Rev0 TP 29-Jul-13	Total Field Strength:	48208.706 nT
Survey Date:	July 29, 2013	Magnetic Dip Angle:	59.839 °
Tort / AHD / DDH / ERO Ratio:	60.002 ° / 4850.576 ft / 5.823 / 0.016	Declination Date:	July 29, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	IGMM 2012
Location Lat / Long:	N 32° 4' 47.73040", W 104° 12' 17.81025"	North Reference:	Grid North
Location Grid N/E Y/X:	N 322837.600 RUS, E 581118.300 RUS	Grid Convergence Used:	0.0682 °
CRS Grid Convergence Angle:	0.0682 °	Total Corr Mag North → Grid North:	7.6427 °
Grid Scale Factor:	0.9999109	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (RUS)	Easting (RUS)	Latitude (NUS ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (1/100ft)
Tie-In	0.00	0.00	357.10	0.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	N/A
	100.00	0.00	357.10	100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	200.00	0.00	357.10	200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	300.00	0.00	357.10	300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	400.00	0.00	357.10	400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	500.00	0.00	357.10	500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	600.00	0.00	357.10	600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	700.00	0.00	357.10	700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	800.00	0.00	357.10	800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	900.00	0.00	357.10	900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1000.00	0.00	357.10	1000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1100.00	0.00	357.10	1100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1200.00	0.00	357.10	1200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1300.00	0.00	357.10	1300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1400.00	0.00	357.10	1400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1500.00	0.00	357.10	1500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1600.00	0.00	357.10	1600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1700.00	0.00	357.10	1700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1800.00	0.00	357.10	1800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	1900.00	0.00	357.10	1900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2000.00	0.00	357.10	2000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2100.00	0.00	357.10	2100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2200.00	0.00	357.10	2200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2300.00	0.00	357.10	2300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2400.00	0.00	357.10	2400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2500.00	0.00	357.10	2500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2600.00	0.00	357.10	2600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2700.00	0.00	357.10	2700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2800.00	0.00	357.10	2800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	2900.00	0.00	357.10	2900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3000.00	0.00	357.10	3000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3100.00	0.00	357.10	3100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3200.00	0.00	357.10	3200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3300.00	0.00	357.10	3300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3400.00	0.00	357.10	3400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3500.00	0.00	357.10	3500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3600.00	0.00	357.10	3600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3700.00	0.00	357.10	3700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3800.00	0.00	357.10	3800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	3900.00	0.00	357.10	3900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4000.00	0.00	357.10	4000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4100.00	0.00	357.10	4100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4200.00	0.00	357.10	4200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4300.00	0.00	357.10	4300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4400.00	0.00	357.10	4400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4500.00	0.00	357.10	4500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4600.00	0.00	357.10	4600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4700.00	0.00	357.10	4700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4800.00	0.00	357.10	4800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	4900.00	0.00	357.10	4900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5000.00	0.00	357.10	5000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5100.00	0.00	357.10	5100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5200.00	0.00	357.10	5200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5300.00	0.00	357.10	5300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5400.00	0.00	357.10	5400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5500.00	0.00	357.10	5500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5600.00	0.00	357.10	5600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5700.00	0.00	357.10	5700.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5800.00	0.00	357.10	5800.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	5900.00	0.00	357.10	5900.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6000.00	0.00	357.10	6000.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6100.00	0.00	357.10	6100.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6200.00	0.00	357.10	6200.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6300.00	0.00	357.10	6300.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6400.00	0.00	357.10	6400.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6500.00	0.00	357.10	6500.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6600.00	0.00	357.10	6600.00	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73	W 104 12 17.81	0.00	0.00	0.00
	6700.00	0.00	357.10	6700.00	0.00									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northings (ft)	Easting (ft)	Latitude (N/S ° ° ' '')	Longitude (E/W ° ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
KOP, Bu's 12" DLS	7071.50	0.00	357.10	7071.50	0.00	0.00	0.00	392837.60	581118.30	N 32 4 47.73 W 104 12 17.61		0.00	0.00	0.00
	7100.00	3.42	357.10	7059.68	0.65	0.65	-0.04	392838.45	581118.26	N 32 4 47.74 W 104 12 17.61		0.65	357.10	12.00
2nd Bone Spring SS	7141.25	8.37	357.10	7141.00	5.05	5.08	-0.26	392842.88	581118.04	N 32 4 47.78 W 104 12 17.61		5.08	357.10	12.00
	7200.00	15.42	357.10	7180.45	17.19	17.16	-0.87	392854.76	581117.43	N 32 4 47.90 W 104 12 17.62		17.19	357.10	12.00
	7300.00	27.42	357.10	7261.38	53.64	53.57	-2.71	392891.16	581115.59	N 32 4 48.26 W 104 12 17.64		53.64	357.10	12.00
	7400.00	39.42	357.10	7374.69	108.61	108.47	-5.49	392948.06	581112.61	N 32 4 49.80 W 104 12 17.67		108.61	357.10	12.00
	7500.00	51.42	357.10	7444.76	179.70	179.47	-9.09	393017.06	581109.21	N 32 4 49.51 W 104 12 17.71		179.70	357.10	12.00
	7600.00	63.42	357.10	7489.62	263.81	263.47	-13.35	393101.05	581104.95	N 32 4 50.34 W 104 12 17.76		263.81	357.10	12.00
	7700.00	75.41	357.10	7533.61	357.25	356.60	-18.07	393194.36	581100.23	N 32 4 51.26 W 104 12 17.82		357.25	357.10	12.00
LP	7800.00	87.41	357.10	7543.51	455.65	455.37	-23.07	393292.93	581095.23	N 32 4 52.24 W 104 12 17.87		455.65	357.10	12.00
	7821.58	90.00	357.10	7549.00	477.50	476.89	-24.18	393314.45	581094.14	N 32 4 52.45 W 104 12 17.88		477.50	357.10	12.00
	7900.00	90.00	357.10	7549.00	555.94	555.23	-28.13	393392.78	581090.18	N 32 4 53.22 W 104 12 17.93		555.94	357.10	0.00
	8000.00	90.00	357.10	7549.00	655.94	655.10	-33.19	393492.65	581085.12	N 32 4 54.21 W 104 12 17.99		655.94	357.10	0.00
	8100.00	90.00	357.10	7549.00	755.94	754.98	-38.25	393592.51	581080.06	N 32 4 55.20 W 104 12 18.04		755.94	357.10	0.00
	8200.00	90.00	357.10	7549.00	855.94	854.85	-43.30	393692.37	581075.00	N 32 4 56.19 W 104 12 18.10		855.94	357.10	0.00
	8300.00	90.00	357.10	7549.00	955.94	954.72	-48.36	393792.23	581069.94	N 32 4 57.18 W 104 12 18.16		955.94	357.10	0.00
	8400.00	90.00	357.10	7549.00	1055.94	1054.59	-53.42	393892.10	581064.88	N 32 4 58.17 W 104 12 18.22		1055.94	357.10	0.00
	8500.00	90.00	357.10	7549.00	1155.94	1154.48	-58.45	393991.96	581059.82	N 32 4 59.15 W 104 12 18.27		1155.94	357.10	0.00
	8600.00	90.00	357.10	7549.00	1255.94	1254.34	-63.54	394091.82	581054.77	N 32 5 0.14 W 104 12 18.33		1255.94	357.10	0.00
	8700.00	90.00	357.10	7549.00	1355.94	1354.21	-68.60	394191.69	581049.71	N 32 5 1.13 W 104 12 18.39		1355.94	357.10	0.00
	8800.00	90.00	357.10	7549.00	1455.94	1454.08	-73.66	394291.55	581044.65	N 32 5 2.12 W 104 12 18.45		1455.94	357.10	0.00
	8900.00	90.00	357.10	7549.00	1555.94	1554.66	-78.72	394391.41	581039.59	N 32 5 3.11 W 104 12 18.50		1555.94	357.10	0.00
	9000.00	90.00	357.10	7549.00	1655.94	1655.82	-83.77	394491.27	581034.53	N 32 5 4.10 W 104 12 18.56		1655.94	357.10	0.00
	9100.00	90.00	357.10	7549.00	1755.94	1755.70	-88.83	394591.14	581029.48	N 32 5 5.08 W 104 12 18.62		1755.94	357.10	0.00
	9200.00	90.00	357.10	7549.00	1855.94	1855.57	-93.89	394691.00	581024.42	N 32 5 6.07 W 104 12 18.68		1855.94	357.10	0.00
	9300.00	90.00	357.10	7549.00	1955.94	1955.44	-98.95	394790.86	581019.36	N 32 5 7.06 W 104 12 18.73		1955.94	357.10	0.00
	9400.00	90.00	357.10	7549.00	2055.94	2055.31	-104.01	394890.73	581014.30	N 32 5 8.05 W 104 12 18.79		2055.94	357.10	0.00
	9500.00	90.00	357.10	7549.00	2155.94	2155.18	-109.07	394990.59	581009.24	N 32 5 9.04 W 104 12 18.85		2155.94	357.10	0.00
	9600.00	90.00	357.10	7549.00	2255.94	2255.16	-114.12	395090.45	581004.19	N 32 5 10.03 W 104 12 18.91		2255.94	357.10	0.00
	9700.00	90.00	357.10	7549.00	2355.94	2355.93	-119.18	395190.31	580999.13	N 32 5 11.01 W 104 12 18.96		2355.94	357.10	0.00
	9800.00	90.00	357.10	7549.00	2455.94	2455.60	-124.24	395290.18	580994.07	N 32 5 12.00 W 104 12 19.02		2455.94	357.10	0.00
	9900.00	90.00	357.10	7549.00	2555.94	2555.67	-129.30	395390.04	580989.02	N 32 5 12.99 W 104 12 19.08		2555.94	357.10	0.00
	10000.00	90.00	357.10	7549.00	2655.94	2655.54	-134.35	395489.90	580983.96	N 32 5 13.98 W 104 12 19.14		2655.94	357.10	0.00
	10100.00	90.00	357.10	7549.00	2755.94	2755.42	-139.41	395589.77	580978.90	N 32 5 14.97 W 104 12 19.19		2755.94	357.10	0.00
	10200.00	90.00	357.10	7549.00	2855.94	2855.29	-144.47	395689.63	580973.84	N 32 5 15.96 W 104 12 19.25		2855.94	357.10	0.00
	10300.00	90.00	357.10	7549.00	2955.94	2955.16	-149.53	395789.49	580968.79	N 32 5 16.94 W 104 12 19.31		2955.94	357.10	0.00
	10400.00	90.00	357.10	7549.00	3055.94	3055.03	-154.58	395889.35	580963.73	N 32 5 17.93 W 104 12 19.36		3055.94	357.10	0.00
	10500.00	90.00	357.10	7549.00	3155.94	3155.60	-159.64	395989.22	580958.67	N 32 5 18.92 W 104 12 19.42		3155.94	357.10	0.00
	10600.00	90.00	357.10	7549.00	3255.94	3255.16	-164.70	396089.08	580953.62	N 32 5 19.91 W 104 12 19.48		3255.94	357.10	0.00
	10700.00	90.00	357.10	7549.00	3355.94	3355.65	-169.76	396188.94	580948.56	N 32 5 20.90 W 104 12 19.54		3355.94	357.10	0.00
	10800.00	90.00	357.10	7549.00	3455.94	3455.12	-174.81	396288.81	580943.50	N 32 5 21.89 W 104 12 19.59		3455.94	357.10	0.00
	10900.00	90.00	357.10	7549.00	3555.94	3555.39	-179.87	396388.67	580938.45	N 32 5 22.87 W 104 12 19.65		3555.94	357.10	0.00
	11000.00	90.00	357.10	7549.00	3655.94	3655.26	-184.93	396488.53	580933.39	N 32 5 23.86 W 104 12 19.71		3655.94	357.10	0.00
	11100.00	90.00	357.10	7549.00	3755.94	3755.14	-189.98	396588.40	580928.33	N 32 5 24.85 W 104 12 19.77		3755.94	357.10	0.00
	11200.00	90.00	357.10	7549.00	3855.94	3855.01	-195.04	396688.26	580923.28	N 32 5 25.84 W 104 12 19.82		3855.94	357.10	0.00
	11300.00	90.00	357.10	7549.00	3955.94	3955.88	-200.10	396788.12	580918.22	N 32 5 26.83 W 104 12 19.88		3955.94	357.10	0.00
	11400.00	90.00	357.10	7549.00	4055.94	4055.75	-205.15	396887.98	580913.16	N 32 5 27.82 W 104 12 19.94		4055.94	357.10	0.00
	11500.00	90.00	357.10	7549.00	4155.94	4155.63	-210.21	396987.85	580908.11	N 32 5 28.80 W 104 12 20.00		4155.94	357.10	0.00
	11600.00	90.00	357.10	7549.00	4255.94	4255.50	-215.27	397087.71	580903.05	N 32 5 29.79 W 104 12 20.05		4255.94	357.10	0.00
	11700.00	90.00	357.10	7549.00	4355.94	4355.37	-220.32	397187.57	580898.00	N 32 5 30.78 W 104 12 20.11		4355.94	357.10	0.00
	11800.00	90.00	357.10	7549.00	4455.94	4455.24	-225.38	397287.44	580892.94	N 32 5 31.77 W 104 12 20.17		4455.94	357.10	0.00
	11900.00	90.00	357.10	7549.00	4555.94	4555.11	-230.44	397387.30	580887.88	N 32 5 32.76 W 104 12 20.23		4555.94	357.10	0.00
Cottonwood Hills 32 State #5H - FBHL	11994.63	90.00	357.10	7549.00	4650.58	4644.62	-235.22	397491.63	580883.10	N 32 5 33.69 W 104 12 20.28		4650.58	357.10	0.00

Survey Type: Def Plan

Survey Error Model: ICSVSA Rev 0 *** 3-D 95.00% Confidence 2.7955 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_NISG+MSHOT-Depth Only	Original Borehole / Cimarex Cottonwood Hills 32 State #5H Rev0 TP 29-Jul-13
	24.000	7071.000	1/100.000	30.000	30.000	SLB_NISG+MSHOT	Original Borehole / Cimarex Cottonwood Hills 32 State #5H
	7071.000	11994.631	1/100.000	30.000	30.000	SLB_MWD-SID	Original Borehole / Cimarex Cottonwood Hills 32 State #5H