

HOBBS OCD

DISTRICT I

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DISTRICT II

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
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DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

MAR 25 2014

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District OfficeRECEIVED
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025- 41250	Pool Code 97994	Pool Name Wildcat Bone Spring
Property Code 300545	Property Name RED HILLS UNIT	Well Number 27H
OGRID No. 162683	Operator Name CIMAREX ENERGY COMPANY OF COLORADO	Elevation 3372

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/EAST line	County
A	5	26 S	33 E		330	NORTH	1290	EAST	LEA

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/EAST line	County
P	5	26 S	33 E		330	SOUTH	440	EAST	LEA
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: 393533.1 E: 767502.8 (NAD83)	N: 393530.3 E: 770227.2 (NAD83)	3373.4' 3378.0' SURFACE LOCATION Lat - N 32°04'44.00" Long - W 103°35'23.80" NMSPCE- N 393230.8 E 771584.2 (NAD-83)	N: 393567.9 E: 772871.6 (NAD83)	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 undivided 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. Signature <u>Paula Brunson</u> Date <u>3/24/2014</u> Printed Name <u>Paula Brunson</u> Email Address <u>pbrunson@cimarex.com</u>
N: 388264.2 E: 767602.2 (NAD83)				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 is true and correct to the best of my belief. Date Surveyed <u>NOVEMBER 10, 2013</u> Signature of Professional Surveyor <u>[Signature]</u> Certificate Number <u>7977</u> Scale: 1" = 1000' WO Num.: 29701
N: 388264.2 E: 767602.2 (NAD83)				PROPOSED BOTTOM HOLE LOCATION Lat - N 32°03'58.31" Long - W 103°35'13.90" NMSPCE- N 388619.0 E 772468.4 (NAD-83)

MAR 27 2014

HOBBS OCD

MAR 25

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

Fill Line

Flowline

2000# (2M)
BOP

SRR & A

Annular Preventer

Pipe Rams

Blind Rams

Drilling Spool

Kill Line

1 Kill Line Valve
(Minimum)

2" Minimum Choke Line

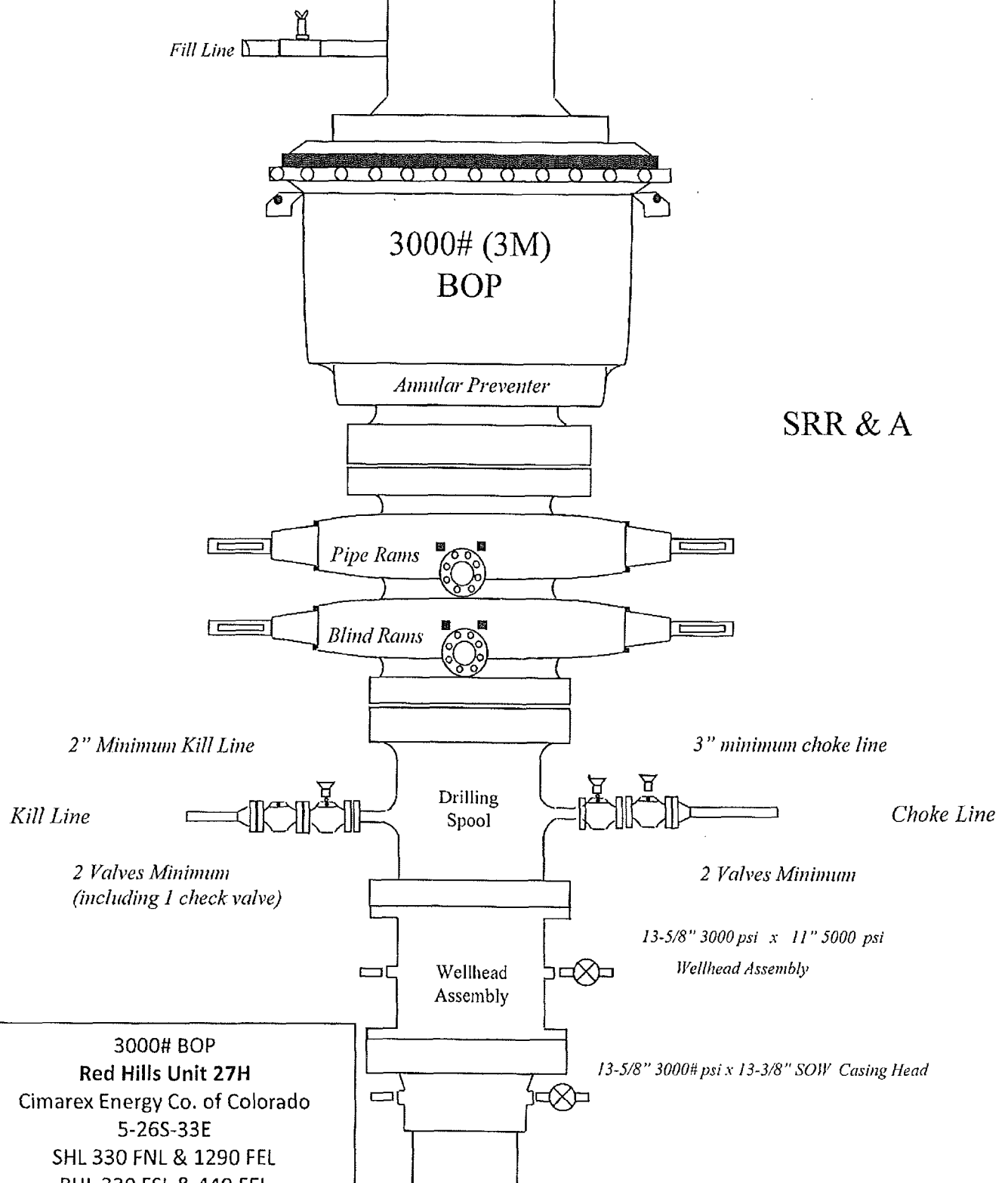
Choke Line

1 Choke Line Valve
(Minimum)

13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

2000# BOP
Red Hills Unit 27H
Cimarex Energy Co. of Colorado
5-26S-33E
SHL 330 FNL & 1290 FEL
BHL 330 FSL & 440 FEL
Lea County, NM

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

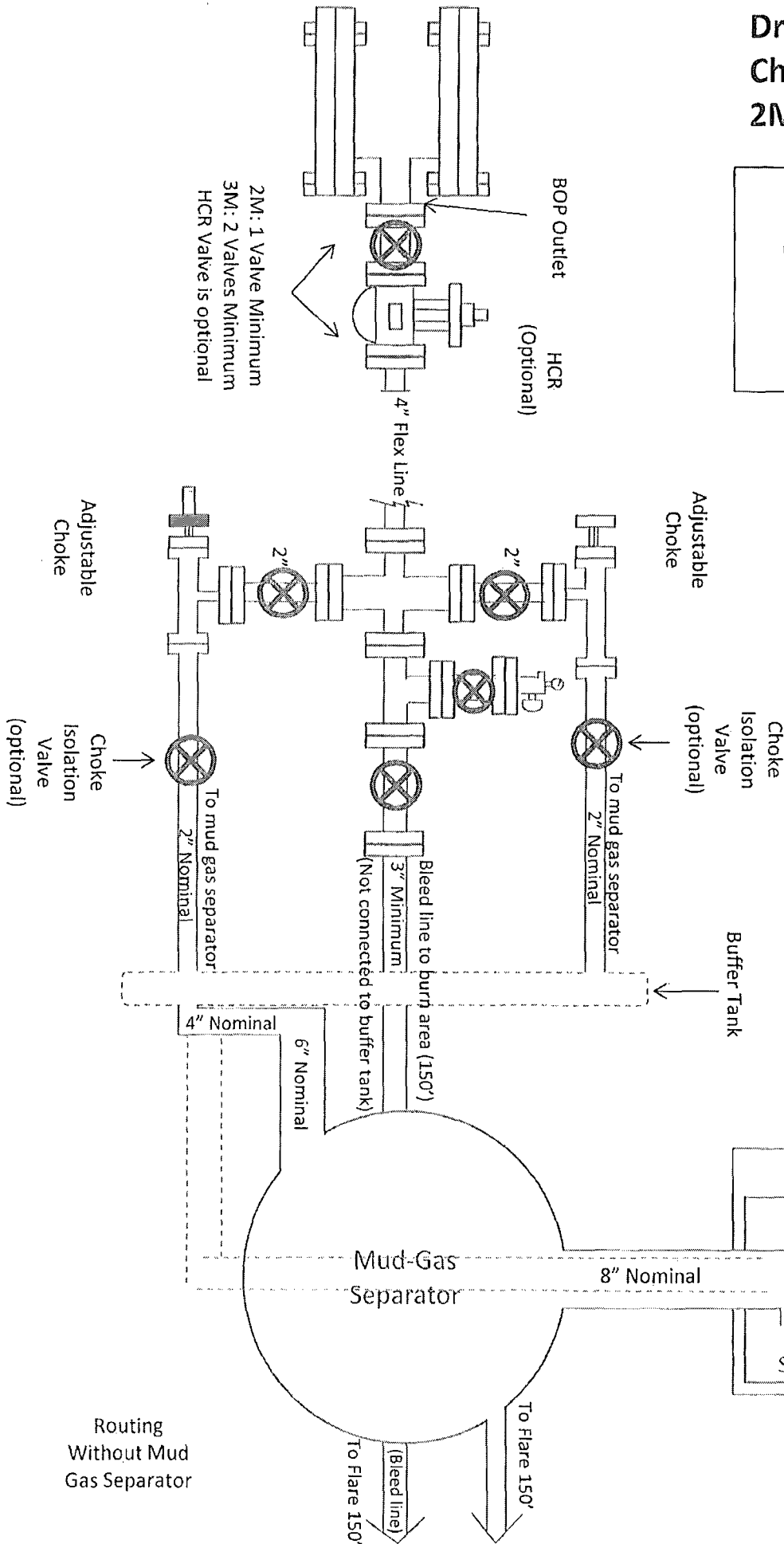


SRR & A

3000# BOP
Red Hills Unit 27H
Cimarex Energy Co. of Colorado
5-26S-33E
SHL 330 FNL & 1290 FEL
BHL 330 FSL & 440 FEL
Lea County, NM

Drilling Operations Choke Manifold 2M/3M Service

Choke Manifold Diagram
Red Hills Unit 27H
Cimarex Energy Co. of Colorado
5-26S-33E
SHL 330 FNL & 1290 FEL
BHL 330 FSL & 440 FEL
Lea County, NM



HOBBS OGD

MAR 25 2014

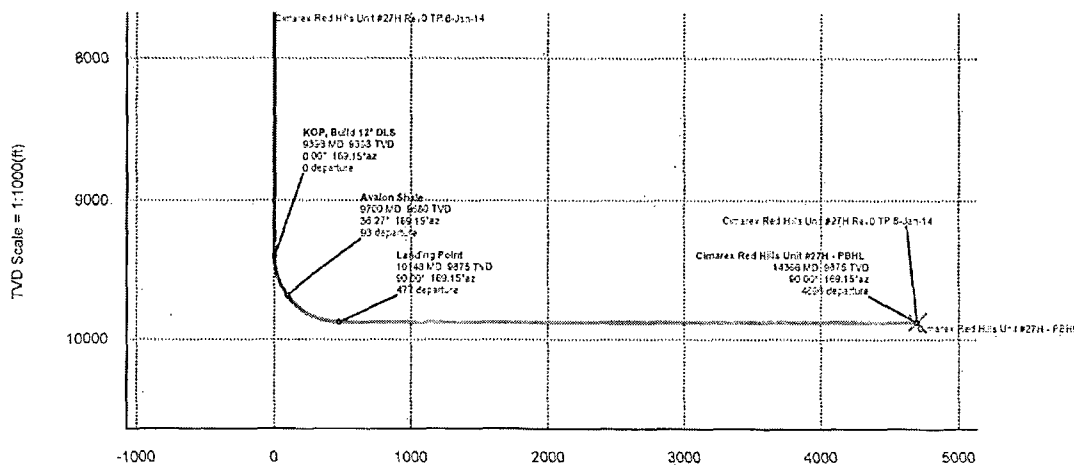
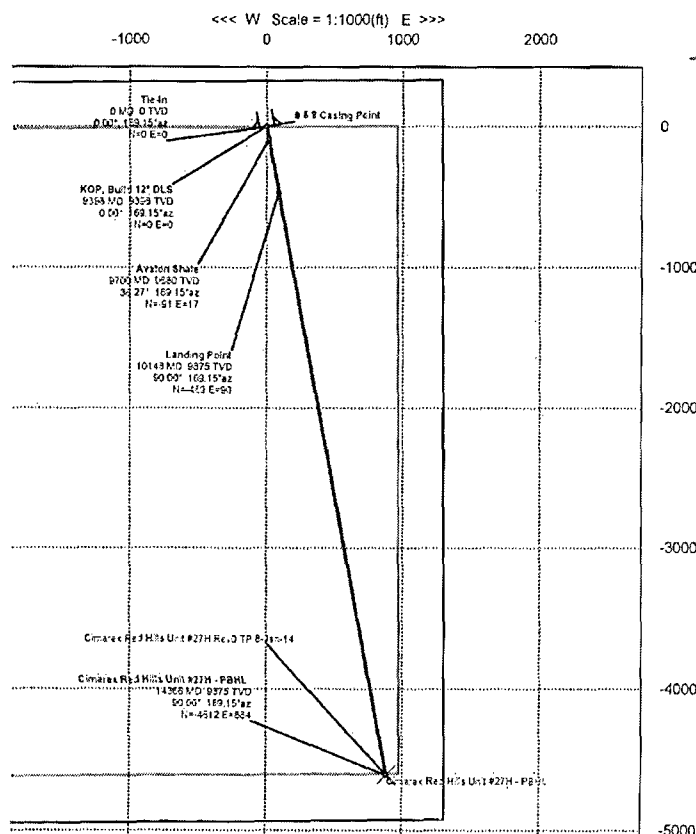
RECEIVED



PATHFINDER
A Schlumberger Company

Well	Field	Structure
Red Hills Unit #27H	NM Lea County (NAD 83)	Cimarex Red Hills Unit #27H
Major: 0347993 Minor: 0004250 E: 131.7 Mag Dec: 7.375° Date: 2/14/14 PS: 4001207	Elevation: 4445.0 Lat: 32° 44' 55" Lon: 103° 16' 23" Easting: 131240.8 Northing: 1101820.3 Zone: 18Q UTM Zone: 18Q UTM Easting: 131240.8 UTM Northing: 1101820.3	Well Name: 0347993 Well ID: 0347993 Well Type: TVD Well Status: Active Well Depth: 4850.00 Well Completion: 12" DLS Well Completion Date: 02/14/14

Grid North
Tot Corr (M→G 6 9806°)
Mag Dec (7.375°)
Grid Conv (0.395°)



Critical Points

Critical Point	MD	INCL	AZIM	TVD	YSEC	N(+) / S(-)	E(+) / W(-)	DLS
Tie-In	0.00	0.00	169.15	0.00	0.00	0.00	0.00	
9 5/8 Casing Point	4850.00	0.00	169.15	4850.00	0.00	0.00	0.00	0.00
KOP, Build 12" DLS	9397.54	0.00	169.15	9397.54	0.00	0.00	0.00	0.00
Avalon Shale	9699.79	36.27	169.15	9680.00	92.52	-90.86	17.42	12.00
Landing Point	10147.54	90.00	169.15	9875.00	477.46	-468.92	89.90	12.00
Cimarex Red Hills Unit #27H - PBHL	14366.02	90.00	169.15	9875.00	4695.95	-4611.95	884.23	0.00



A Schlumberger Company

Cimarex Red Hills Unit #27H Rev0 TP 8-Jan-14 Proposal Report

(Non-Def Plan)

Report Date: January 08, 2014 - 03:24 PM
 Client:
 Field: NM Lea County (NAD 83)
 Structure / Slot: Cimarex Red Hills Unit #27H / Red Hills Unit #27H
 Well: Red Hills Unit #27H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Red Hills Unit #27H Rev0 TP 8-Jan-14
 Survey Date: January 08, 2014
 Tort / AHD / DDI / ERD Ratio: 90,000 * / 4695.948 ft / 5.789 / 0.476
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 4' 44.00527", W 103° 35' 23.80340"
 Location Grid N/E Y/X: N 393230.800 ftUS, E 771584.200 ftUS
 CRS Grid Convergence Angle: 0.3948 °
 Grid Scale Factor: 0.99996981

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 169.147 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Ground Level
 TVD Reference Elevation: 3372.000 ft above MSL
 Seabed / Ground Elevation: 3372.000 ft above MSL
 Magnetic Declination: 7.375 °
 Total Field Strength: 48252.995 nT
 Magnetic Dip Angle: 59.970 °
 Declination Date: January 08, 2014
 Magnetic Declination Model: BGGM 2013
 North Reference: Grid North
 Grid Convergence Used: 0.3948 °
 Total Corr Mag North->Grid North: 6.9806 °
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS ("/100ft)
Tie-In	0.00	0.00	169.15	0.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	N/A
	100.00	0.00	169.15	100.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	200.00	0.00	169.15	200.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	300.00	0.00	169.15	300.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	400.00	0.00	169.15	400.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	500.00	0.00	169.15	500.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	600.00	0.00	169.15	600.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	700.00	0.00	169.15	700.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	800.00	0.00	169.15	800.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	900.00	0.00	169.15	900.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1000.00	0.00	169.15	1000.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1100.00	0.00	169.15	1100.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1200.00	0.00	169.15	1200.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1300.00	0.00	169.15	1300.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1400.00	0.00	169.15	1400.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1500.00	0.00	169.15	1500.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1600.00	0.00	169.15	1600.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1700.00	0.00	169.15	1700.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1800.00	0.00	169.15	1800.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	1900.00	0.00	169.15	1900.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2000.00	0.00	169.15	2000.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2100.00	0.00	169.15	2100.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2200.00	0.00	169.15	2200.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2300.00	0.00	169.15	2300.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2400.00	0.00	169.15	2400.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2500.00	0.00	169.15	2500.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2600.00	0.00	169.15	2600.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2700.00	0.00	169.15	2700.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2800.00	0.00	169.15	2800.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	2900.00	0.00	169.15	2900.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	3000.00	0.00	169.15	3000.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	3100.00	0.00	169.15	3100.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	3200.00	0.00	169.15	3200.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Eastng (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
	8700.00	0.00	169.15	8700.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	8800.00	0.00	169.15	8800.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	8900.00	0.00	169.15	8900.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	9000.00	0.00	169.15	9000.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	9100.00	0.00	169.15	9100.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	9200.00	0.00	169.15	9200.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	9300.00	0.00	169.15	9300.00	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
KOP, Build 12" DLS	9397.54	0.00	169.15	9397.54	0.00	0.00	0.00	393230.80	771584.20	N 32 4 44.01	W 103 35 23.80	0.00	0.00	0.00
	9400.00	0.30	169.15	9400.00	0.01	-0.01	0.00	393230.79	771584.20	N 32 4 44.01	W 103 35 23.80	0.01	169.15	12.00
	9500.00	12.30	169.15	9499.22	10.95	-10.76	2.06	393220.04	771586.26	N 32 4 43.90	W 103 35 23.78	10.95	169.15	12.00
Avalon Shale	9600.00	24.30	169.15	9593.99	42.29	-41.53	7.96	393189.27	771592.16	N 32 4 43.59	W 103 35 23.71	42.29	169.15	12.00
	9699.79	36.27	169.15	9680.00	92.52	-90.86	17.42	393139.94	771601.62	N 32 4 43.17	W 103 35 23.61	92.52	169.15	12.00
	9700.00	36.30	169.15	9680.17	92.64	-90.98	17.44	393139.82	771601.64	N 32 4 43.10	W 103 35 23.61	92.64	169.15	12.00
	9800.00	48.30	169.15	9754.01	159.81	-156.95	30.09	393073.85	771614.29	N 32 4 42.45	W 103 35 23.47	159.81	169.15	12.00
	9900.00	60.30	169.15	9812.26	240.87	-236.56	45.35	392994.25	771629.55	N 32 4 41.66	W 103 35 23.30	240.87	169.15	12.00
	10000.00	72.30	169.15	9852.39	332.27	-326.32	62.56	392904.49	771646.76	N 32 4 40.77	W 103 35 23.10	332.27	169.15	12.00
	10100.00	84.30	169.15	9872.64	430.01	-422.32	80.97	392808.50	771665.17	N 32 4 39.82	W 103 35 22.90	430.01	169.15	12.00
Landing Point	10147.54	90.00	169.15	9875.00	477.46	-463.92	89.90	392761.89	771674.10	N 32 4 39.36	W 103 35 22.80	477.46	169.15	12.00
	10200.00	90.00	169.15	9875.00	529.93	-520.45	99.78	392710.37	771683.98	N 32 4 38.85	W 103 35 22.69	529.93	169.15	0.00
	10300.00	90.00	169.15	9875.00	829.93	-618.66	118.61	392612.16	771702.81	N 32 4 37.88	W 103 35 22.47	629.93	169.15	0.00
	10400.00	90.00	169.15	9875.00	729.93	-716.87	137.44	392513.95	771721.64	N 32 4 36.90	W 103 35 22.26	729.93	169.15	0.00
	10500.00	90.00	169.15	9875.00	829.93	-815.08	156.27	392415.74	771740.47	N 32 4 35.93	W 103 35 22.05	829.93	169.15	0.00
	10600.00	90.00	169.15	9875.00	929.93	-913.30	175.10	392317.53	771759.30	N 32 4 34.96	W 103 35 21.84	929.93	169.15	0.00
	10700.00	90.00	169.15	9875.00	1029.93	-1011.51	193.93	392219.33	771778.13	N 32 4 33.98	W 103 35 21.63	1029.93	169.15	0.00
	10800.00	90.00	169.15	9875.00	1129.93	-1109.72	212.76	392121.12	771796.95	N 32 4 33.01	W 103 35 21.42	1129.93	169.15	0.00
	10900.00	90.00	169.15	9875.00	1229.93	-1207.93	231.59	392022.91	771815.78	N 32 4 32.04	W 103 35 21.21	1229.93	169.15	0.00
	11000.00	90.00	169.15	9875.00	1329.93	-1306.14	250.42	391924.70	771834.61	N 32 4 31.06	W 103 35 21.00	1329.93	169.15	0.00
	11100.00	90.00	169.15	9875.00	1429.93	-1404.35	269.25	391826.49	771853.44	N 32 4 30.09	W 103 35 20.79	1429.93	169.15	0.00
	11200.00	90.00	169.15	9875.00	1529.93	-1502.56	288.08	391728.29	771872.27	N 32 4 29.12	W 103 35 20.58	1529.93	169.15	0.00
	11300.00	90.00	169.15	9875.00	1629.93	-1600.77	306.91	391630.08	771891.10	N 32 4 28.14	W 103 35 20.36	1629.93	169.15	0.00
	11400.00	90.00	169.15	9875.00	1729.93	-1698.99	325.74	391531.87	771909.93	N 32 4 27.17	W 103 35 20.15	1729.93	169.15	0.00
	11500.00	90.00	169.15	9875.00	1829.93	-1797.20	344.57	391433.66	771928.76	N 32 4 26.20	W 103 35 19.94	1829.93	169.15	0.00
	11600.00	90.00	169.15	9875.00	1929.93	-1895.41	363.40	391335.45	771947.59	N 32 4 25.23	W 103 35 19.73	1929.93	169.15	0.00
	11700.00	90.00	169.15	9875.00	2029.93	-1993.62	382.23	391237.25	771966.42	N 32 4 24.25	W 103 35 19.52	2029.93	169.15	0.00
	11800.00	90.00	169.15	9875.00	2129.93	-2091.83	401.06	391139.04	771985.24	N 32 4 23.28	W 103 35 19.31	2129.93	169.15	0.00
	11900.00	90.00	169.15	9875.00	2229.93	-2190.04	419.89	391040.83	772004.07	N 32 4 22.31	W 103 35 19.10	2229.93	169.15	0.00
	12000.00	90.00	169.15	9875.00	2329.93	-2288.25	438.72	390942.62	772022.90	N 32 4 21.33	W 103 35 18.89	2329.93	169.15	0.00
	12100.00	90.00	169.15	9875.00	2429.93	-2386.46	457.55	390844.41	772041.73	N 32 4 20.36	W 103 35 18.68	2429.93	169.15	0.00
	12200.00	90.00	169.15	9875.00	2529.93	-2484.68	476.38	390746.20	772060.56	N 32 4 19.39	W 103 35 18.47	2529.93	169.15	0.00
	12300.00	90.00	169.15	9875.00	2629.93	-2582.89	495.21	390648.00	772079.39	N 32 4 18.41	W 103 35 18.26	2629.93	169.15	0.00
	12400.00	90.00	169.15	9875.00	2729.93	-2681.10	514.03	390549.79	772098.22	N 32 4 17.44	W 103 35 18.04	2729.93	169.15	0.00
	12500.00	90.00	169.15	9875.00	2829.93	-2779.31	532.86	390451.58	772117.05	N 32 4 16.47	W 103 35 17.83	2829.93	169.15	0.00
	12600.00	90.00	169.15	9875.00	2929.93	-2877.52	551.69	390353.37	772135.88	N 32 4 15.49	W 103 35 17.62	2929.93	169.15	0.00
	12700.00	90.00	169.15	9875.00	3029.93	-2975.73	570.52	390255.16	772154.71	N 32 4 14.52	W 103 35 17.41	3029.93	169.15	0.00
	12800.00	90.00	169.15	9875.00	3129.93	-3073.94	589.35	390156.96	772173.53	N 32 4 13.55	W 103 35 17.20	3129.93	169.15	0.00
	12900.00	90.00	169.15	9875.00	3229.93	-3172.15	608.18	390058.75	772192.36	N 32 4 12.57	W 103 35 16.99	3229.93	169.15	0.00
	13000.00	90.00	169.15	9875.00	3329.93	-3270.36	627.01	389960.54	772211.19	N 32 4 11.60	W 103 35 16.78	3329.93	169.15	0.00
	13100.00	90.00	169.15	9875.00	3429.93	-3368.58	645.84	389862.33	772230.02	N 32 4 10.63	W 103 35 16.57	3429.93	169.15	0.00
	13200.00	90.00	169.15	9875.00	3529.93	-3466.79	664.67	389764.12	772248.85	N 32 4 9.66	W 103 35 16.36	3529.93	169.15	0.00
	13300.00	90.00	169.15	9875.00	3629.93	-3565.00	683.50	389665.92	772267.68	N 32 4 8.68	W 103 35 16.15	3629.93	169.15	0.00
	13400.00	90.00	169.15	9875.00	3729.93	-3663.21	702.33	389567.71	772286.51	N 32 4 7.71	W 103 35 15.94	3729.93	169.15	0.00
	13500.00	90.00	169.15	9875.00	3829.93	-3761.42	721.16	389469.50	772305.34	N 32 4 6.74	W 103 35 15.72	3829.93	169.15	0.00
	13600.00	90.00	169.15	9875.00	3929.93	-3859.63	739.99	389371.29	772324.17	N 32 4 5.76	W 103 35 15.51	3929.93	169.15	0.00
	13700.00	90.00	169.15	9875.00	4029.93	-3957.84	758.82	389273.08	772343.00	N 32 4 4.79	W 103 35 15.30	4029.93	169.15	0.00

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)
	13800.00	90.00	169.15	9875.00	4129.93	-4056.05	777.65	380174.88	772361.82	N 32 4 3.82	W 103 35 15.09	4129.93	169.15	0.00
	13900.00	90.00	169.15	9875.00	4229.93	-4154.27	796.48	389076.67	772380.65	N 32 4 2.84	W 103 35 14.88	4229.93	169.15	0.00
	14000.00	90.00	169.15	9875.00	4329.93	-4252.48	815.31	388978.46	772399.48	N 32 4 1.87	W 103 35 14.67	4329.93	169.15	0.00
	14100.00	90.00	169.15	9875.00	4429.93	-4350.69	834.14	388880.25	772418.31	N 32 4 0.90	W 103 35 14.46	4429.93	169.15	0.00
	14200.00	90.00	169.15	9875.00	4529.93	-4448.90	852.97	388782.04	772437.14	N 32 3 59.92	W 103 35 14.25	4529.93	169.15	0.00
	14300.00	90.00	169.15	9875.00	4629.93	-4547.11	871.80	388683.84	772455.97	N 32 3 58.95	W 103 35 14.04	4629.93	169.15	0.00
Cimarex Red Hills Unit #27H - PBHL	14366.02	90.00	169.15	9875.00	4695.95	-4611.95	884.23	388619.00	772468.40	N 32 3 58.31	W 103 35 13.90	4695.95	169.15	0.00

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% 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	14366.018	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Red Hills Unit #27H Rev0 TP 8-Jan-14