

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 272732

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701		2. OGRID Number 215099
4. Property Code 323006		3. API Number 30-015-46335
5. Property Name PARKWAY 15 14 NORTH STATE COM		6. Well No. 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	15	19S	29E		1230	N	390	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	14	19S	29E	H	1915	N	100	E	Eddy

9. Pool Information

TURKEY TRACK;BONE SPRING	60660
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3345
16. Multiple N	17. Proposed Depth 18750	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 1/1/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	350	226	0
Int1	12.25	9.625	36	3280	831	0
Prod	8.75	5.5	17	18750	2971	3080

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2000	2000	Cameron
Annular	3000	3000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Genea A Holloway	Approved By: Raymond Podany
Title: Prod Admin Supervisor	Title: Geologist
Email Address: gholloway@cimarex.com	Approved Date: 10/4/2019 Expiration Date: 10/4/2021
Date: 9/27/2019 Phone: 918-295-1658	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 60660	³ Pool Name Turkey Track; Bone Spring
⁴ Property Code 323006	⁵ Property Name PARKWAY 15-14 NORTH STATE COM	⁶ Well Number 2H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3344.5'

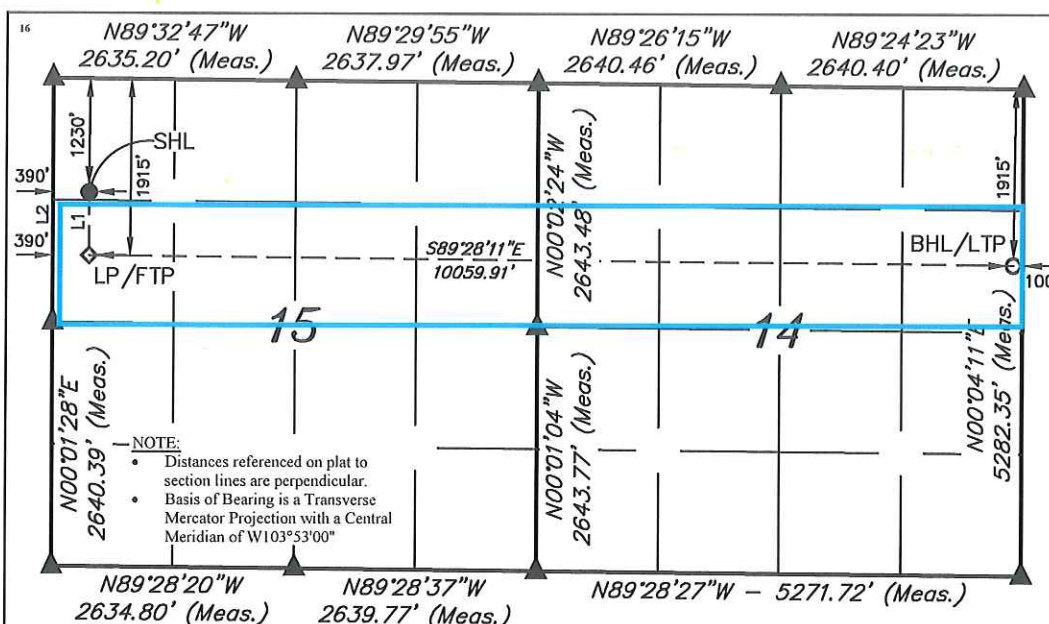
¹⁰ Surface Location

UL or lot no. D	Section 15	Township 19S	Range 29E	Lot Idn	Feet from the 1230	North/South line NORTH	Feet from the 390	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. H	Section 14	Township 19S	Range 29E	Lot Idn	Feet from the 1915	North/South line NORTH	Feet from the 100	East/West line EAST	County EDDY
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

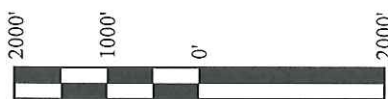


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°03'28\"E	685.05'
L2	N00°03'11\"W	2642.43'

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°39'52.81\"	(32.664670°)
LONGITUDE = 104°04'11.79\"	(104.069943°)
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°39'52.39\"	(32.664553°)
LONGITUDE = 104°04'09.97\"	(104.069436°)
STATE PLANE NAD 83 (N.M. EAST)	
N: 605638.70' E: 622391.02'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 605576.35' E: 581211.31'	

NAD 83 (BHL/LTP)	
LATITUDE = 32°39'45.28\"	(32.662576°)
LONGITUDE = 104°02'14.12\"	(104.037255°)
NAD 27 (BHL/LTP)	
LATITUDE = 32°39'44.85\"	(32.662458°)
LONGITUDE = 104°02'12.30\"	(104.036749°)
STATE PLANE NAD 83 (N.M. EAST)	
N: 604903.37' E: 632452.21'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 604840.97' E: 591272.49'	

- = SURFACE HOLE LOCATION
- ◇ = LANDING POINT/FIRST TAKE POINT
- = BOTTOM HOLE LOCATION/ LAST TAKE POINT
- ▲ = SECTION CORNER LOCATED



SCALE
DRAWN BY: C.M.T. 11-30-18

¹⁷ 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.

Signature: *Amithy Crawford* Date: 9/25/19

Amithy Crawford
Printed Name

acrawford@cimarex.com
E-mail Address

¹⁸ 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.

November 21, 2018

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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GAS CAPTURE PLAN

Date: 10/4/2019

☒ Original

Operator & OGRID No.: [215099] CIMAREX ENERGY CO.

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
PARKWAY 15 14 NORTH STATE COM #002H	30-015-46335	D-15-19S-29E	1230N 0390W	3900	None	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to SUMMIT TRANSPORTATION CO. and will be connected to SUMMIT TRANSPORTATION CO. Low Pressure gathering system located in Eddy County, New Mexico. It will require 13200' of pipeline to connect the facility to Low Pressure gathering system. CIMAREX ENERGY CO. provides (periodically) to SUMMIT TRANSPORTATION CO. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CIMAREX ENERGY CO. and SUMMIT TRANSPORTATION CO. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at SUMMIT TRANSPORTATION CO. Processing Plant located in Sec. 26, Twn. 20S, Rng. 31E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on SUMMIT TRANSPORTATION CO. system at that time. Based on current information, it is CIMAREX ENERGY CO.'s belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 272732

PERMIT COMMENTS

Operator Name and Address: CIMAREX ENERGY CO. [215099] 600 N. Marienfeld Street Midland, TX 79701		API Number: 30-015-46335
		Well: PARKWAY 15 14 NORTH STATE COM #002H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 272732

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CIMAREX ENERGY CO. [215099] 600 N. Marienfeld Street Midland, TX 79701		API Number: 30-015-46335
		Well: PARKWAY 15 14 NORTH STATE COM #002H
OCD Reviewer	Condition	
rpodany	Will require a directional survey with the C-104	
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing	



Cimarex Parkway 15-14 North State Com 2H Rev0 RM 17Sept19 Proposal

Geodetic Report

(Non-Def Plan)



Report Date: September 19, 2019 - 01:11 PM
Client: Cimarex Energy
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Parkway 15-14 North State Com 2H / New Slot
Well: Parkway 15-14 North State Com 2H
Borehole: Parkway 15-14 North State Com 2H
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Parkway 15-14 North State Com 2H Rev0 RM 17Sept19
Survey Date: September 17, 2019
Tort / AHD / DDI / ERD Ratio: 109.462 ° / 10744.458 ft / 6.397 / 1.215
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 39' 52.81364", W 104° 4' 11.79446"
Location Grid N/E Y/X: N 605638.700 ftUS, E 622391.020 ftUS
CRS Grid Convergence Angle: 0.1422 °
Grid Scale Factor: 0.99991661
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.285 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3370.500 ft above MSL
Seabed / Ground Elevation: 3344.500 ft above MSL
Magnetic Declination: 7.259 °
Total Gravity Field Strength: 998.5139mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47962.968 nT
Magnetic Dip Angle: 60.412 °
Declination Date: September 19, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1422 °
Total Corr Mag North->Grid North: 7.1172 °
Local Coord Referenced To: Well Head

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 [1230' FNL, 390' FWL]	0.00	0.00	94.18	0.00	0.00	0.00	0.00	N/A	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	100.00	0.00	179.74	100.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	200.00	0.00	179.74	200.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
Rustler	300.00	0.00	179.74	300.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
Top Salt	340.00	0.00	179.74	340.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	400.00	0.00	179.74	400.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	500.00	0.00	179.74	500.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	600.00	0.00	179.74	600.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	700.00	0.00	179.74	700.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	800.00	0.00	179.74	800.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
Base Salt	900.00	0.00	179.74	900.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	930.00	0.00	179.74	930.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1000.00	0.00	179.74	1000.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1100.00	0.00	179.74	1100.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
Yates	1200.00	0.00	179.74	1200.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1300.00	0.00	179.74	1300.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1400.00	0.00	179.74	1400.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1500.00	0.00	179.74	1500.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1600.00	0.00	179.74	1600.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1700.00	0.00	179.74	1700.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1800.00	0.00	179.74	1800.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	1900.00	0.00	179.74	1900.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
Nudge 2°/100' DLS	2000.00	0.00	179.74	2000.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81 W 104 4 11.79	
	2100.00	2.00	179.74	2099.98	0.02	-1.75	0.01	2.00	605636.96	622391.03	N 32 39 52.80 W 104 4 11.79	
Queen	2140.06	2.80	179.74	2140.00	0.03	-3.42	0.02	2.00	605635.28	622391.04	N 32 39 52.78 W 104 4 11.79	
	2200.00	4.00	179.74	2199.84	0.07	-6.98	0.03	2.00	605631.72	622391.05	N 32 39 52.74 W 104 4 11.79	
	2300.00	6.00	179.74	2299.45	0.15	-15.69	0.07	2.00	605623.01	622391.09	N 32 39 52.66 W 104 4 11.79	
	2400.00	8.00	179.74	2398.70	0.26	-27.88	0.13	2.00	605610.82	622391.15	N 32 39 52.54 W 104 4 11.79	
Hold Nudge	2486.55	9.73	179.74	2484.21	0.39	-41.22	0.18	2.00	605597.49	622391.20	N 32 39 52.41 W 104 4 11.79	
	2500.00	9.73	179.74	2497.47	0.41	-43.49	0.20	0.00	605595.21	622391.22	N 32 39 52.38 W 104 4 11.79	
	2600.00	9.73	179.74	2596.03	0.57	-60.39	0.27	0.00	605578.31	622391.29	N 32 39 52.22 W 104 4 11.79	
	2700.00	9.73	179.74	2694.59	0.73	-77.30	0.35	0.00	605561.41	622391.37	N 32 39 52.05 W 104 4 11.79	
	2800.00	9.73	179.74	2793.15	0.89	-94.20	0.42	0.00	605544.51	622391.44	N 32 39 51.88 W 104 4 11.79	
	2900.00	9.73	179.74	2891.72	1.05	-111.10	0.50	0.00	605527.61	622391.52	N 32 39 51.71 W 104 4 11.79	
	3000.00	9.73	179.74	2990.28	1.21	-128.00	0.57	0.00	605510.71	622391.59	N 32 39 51.55 W 104 4 11.79	
	3100.00	9.73	179.74	3088.84	1.37	-144.90	0.65	0.00	605493.81	622391.67	N 32 39 51.38 W 104 4 11.79	
Capitan	3106.25	9.73	179.74	3095.00	1.38	-145.96	0.65	0.00	605492.75	622391.67	N 32 39 51.37 W 104 4 11.79	
	3200.00	9.73	179.74	3187.40	1.53	-161.81	0.73	0.00	605476.91	622391.75	N 32 39 51.21 W 104 4 11.79	
	3300.00	9.73	179.74	3285.96	1.69	-178.71	0.80	0.00	605460.01	622391.82	N 32 39 51.05 W 104 4 11.79	
Delaware	3314.24	9.73	179.74	3300.00	1.71	-181.12	0.81	0.00	605457.60	622391.83	N 32 39 51.02 W 104 4 11.79	
	3400.00	9.73	179.74	3384.52	1.85	-195.61	0.88	0.00	605443.11	622391.90	N 32 39 50.88 W 104 4 11.79	
	3500.00	9.73	179.74	3483.08	2.01	-212.51	0.95	0.00	605426.21	622391.97	N 32 39 50.71 W 104 4 11.79	
	3600.00	9.73	179.74	3581.64	2.17	-229.41	1.03	0.00	605409.31	622392.05	N 32 39 50.54 W 104 4 11.79	
	3700.00	9.73	179.74	3680.21	2.33	-246.32	1.10	0.00	605392.40	622392.12	N 32 39 50.38 W 104 4 11.79	
	3800.00	9.73	179.74	3778.77	2.49	-263.22	1.18	0.00	605375.50	622392.20	N 32 39 50.21 W 104 4 11.79	
	3900.00	9.73	179.74	3877.33	2.65	-280.12	1.26	0.00	605358.60	622392.28	N 32 39 50.04 W 104 4 11.79	
	4000.00	9.73	179.74	3975.89	2.81	-297.02	1.33	0.00	605341.70	622392.35	N 32 39 49.87 W 104 4 11.79	
	4100.00	9.73	179.74	4074.45	2.97	-313.92	1.41	0.00	605324.80	622392.43	N 32 39 49.71 W 104 4 11.79	
	4200.00	9.73	179.74	4173.01	3.13	-330.83	1.48	0.00	605307.90	622392.50	N 32 39 49.54 W 104 4 11.79	
	4300.00	9.73	179.74	4271.57	3.29	-347.73	1.56	0.00	605291.00	622392.58	N 32 39 49.37 W 104 4 11.79	
	4400.00	9.73	179.74	4370.13	3.45	-364.63	1.64	0.00	605274.10	622392.66	N 32 39 49.21 W 104 4 11.79	
	4500.00	9.73	179.74	4468.70	3.61	-381.53	1.71	0.00	605257.20	622392.73	N 32 39 49.04 W 104 4 11.79	
	4600.00	9.73	179.74	4567.26	3.77	-398.44	1.79	0.00	605240.30	622392.81	N 32 39 48.87 W 104 4 11.79	
	4700.00	9.73	179.74	4665.82	3.93	-415.34	1.86	0.00	605223.40	622392.88	N 32 39 48.70 W 104 4 11.78	
	4800.00	9.73	179.74	4764.38	4.09	-432.24	1.94	0.00	605206.50	622392.96	N 32 39 48.54 W 104 4 11.78	
	4900.00	9.73	179.74	4862.94	4.25	-449.14	2.01	0.00	605189.60	622393.03	N 32 39 48.37 W 104 4 11.78	
	5000.00	9.73	179.74	4961.50	4.41	-466.04	2.09	0.00	605172.70	622393.11	N 32 39 48.20 W 104 4 11.78	
	5100.00	9.73	179.74	5060.06	4.57	-482.95	2.17	0.00	605155.80	622393.19	N 32 39 48.04 W 104 4 11.78	
	5200.00	9.73	179.74	5158.62	4.73	-499.85	2.24	0.00	605138.90	622393.26	N 32 39 47.87 W 104 4 11.78	
	5300.00	9.73	179.74	5257.18	4.89	-516.75	2.32	0.00	605121.99	622393.34	N 32 39 47.70 W 104 4 11.78	
	5400.00	9.73	179.74	5355.75	5.05	-533.65	2.39	0.00	605105.09	622393.41	N 32 39 47.53 W 104 4 11.78	
	5500.00	9.73	179.74	5454.31	5.21	-550.55	2.47	0.00	605088.19	622393.49	N 32 39 47.37 W 104 4 11.78	
	5600.00	9.73	179.74	5552.87	5.37	-567.46	2.55	0.00	605071.29	622393.57	N 32 39 47.20 W 104 4 11.78	
	5700.00	9.73	179.74	5651.43	5.53	-584.36	2.62	0.00	605054.39	622393.64	N 32 39 47.03 W 104 4 11.78	
	5800.00	9.73	179.74	5749.99	5.69	-601.26	2.70	0.00	605037.49	622393.72	N 32 39 46.86 W 104 4 11.78	
	5900.00	9.73	179.74	5848.55	5.85	-618.16	2.77	0.00	605020.59	622393.79	N 32 39 46.70 W 104 4 11.78	
	6000.00	9.73	179.74	5947.11	6.01	-635.06	2.85	0.00	605003.69	622393.87	N 32 39 46.53 W 104 4 11.78	
Drop to Vertical 2°/100' DLS	6053.66	9.73	179.74	6000.00	6.09	-644.13	2.89	0.00	604994.62	622393.91	N 32 39 46.44 W 104 4 11.78	
	6100.00	8.80	179.74	6045.74	6.16	-651.60	2.92	2.00	604987.16	622393.94	N 32 39 46.37 W 104 4 11.78	
	6200.00	6.80	179.74	6144.80	6.29	-665.17	2.98	2.00	604973.58	622394.00	N 32 39 46.23 W 104 4 11.78	
	6300.00	4.80	179.74	6244.29	6.39	-675.29	3.03	2.00	604963.47	622394.05	N 32 39 46.13 W 104 4 11.78	
	6400.00	2.80	179.74	6344.06	6.45	-681.92	3.06	2.00	604956.84	622394.08	N 32 39 46.07 W 104 4 11.78	
	6500.00	0.80	179.74	6444.01	6.48	-685.07	3.07	2.00	604953.69	622394.09	N 32 39 46.04 W 104 4 11.78	
Hold Vertical	6540.21	0.00	179.74	6484.21	6.48	-685.35</						

	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 ° ' ")
1st BS Sand	6700.00	0.00	179.74	6644.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	6800.00	0.00	179.74	6744.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	6900.00	0.00	179.74	6844.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7000.00	0.00	179.74	6944.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7005.99	0.00	179.74	6950.00	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7100.00	0.00	179.74	7044.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7200.00	0.00	179.74	7144.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7300.00	0.00	179.74	7244.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7400.00	0.00	179.74	7344.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7500.00	0.00	179.74	7444.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
2nd BS Sand	7600.00	0.00	179.74	7544.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7700.00	0.00	179.74	7644.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7765.99	0.00	179.74	7710.00	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7800.00	0.00	179.74	7744.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	7900.00	0.00	179.74	7844.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	8000.00	0.00	179.74	7944.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	8100.00	0.00	179.74	8044.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	8200.00	0.00	179.74	8144.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	8300.00	0.00	179.74	8244.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
	8400.00	0.00	179.74	8344.01	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
KOP - Build 12"/100' DLS	8418.53	0.00	179.74	8362.54	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03 W 104	4 11.78
3rd BS Sand	8500.00	9.78	90.29	8443.61	13.42	-685.39	10.01	12.00	604953.37	622401.03	N 32 39 46.03 W 104	4 11.70
	8600.00	21.78	90.29	8539.67	40.56	-685.52	37.15	12.00	604953.24	622428.16	N 32 39 46.03 W 104	4 11.38
	8700.00	33.78	90.29	8627.98	87.07	-685.75	83.66	12.00	604953.01	622474.68	N 32 39 46.03 W 104	4 10.84
	8793.31	44.97	90.29	8700.00	146.18	-686.05	142.76	12.00	604952.71	622533.77	N 32 39 46.02 W 104	4 10.14
	8800.00	45.78	90.29	8704.70	150.94	-686.07	147.52	12.00	604952.69	622538.53	N 32 39 46.02 W 104	4 10.09
	8900.00	57.78	90.29	8766.46	229.35	-686.46	225.94	12.00	604952.30	622616.94	N 32 39 46.02 W 104	4 9.17
	9000.00	69.78	90.29	8810.56	318.90	-686.91	315.48	12.00	604951.85	622706.48	N 32 39 46.01 W 104	4 8.12
	9100.00	81.78	90.29	8835.09	415.65	-687.39	412.24	12.00	604951.37	622803.22	N 32 39 46.00 W 104	4 6.99
	9168.53	90.00	90.29	8840.00	483.95	-687.73	480.53	12.00	604951.03	622871.51	N 32 39 46.00 W 104	4 6.19
	9200.00	90.00	90.29	8840.00	515.42	-687.88	512.00	0.00	604950.88	622902.98	N 32 39 45.99 W 104	4 5.83
Landing Point	9300.00	90.00	90.29	8840.00	615.42	-688.38	612.00	0.00	604950.38	623002.97	N 32 39 45.99 W 104	4 4.66
	9400.00	90.00	90.29	8840.00	715.42	-688.88	712.00	0.00	604949.88	623102.96	N 32 39 45.98 W 104	4 3.49
	9500.00	90.00	90.29	8840.00	815.42	-689.38	812.00	0.00	604949.38	623202.95	N 32 39 45.97 W 104	4 2.32
	9600.00	90.00	90.29	8840.00	915.42	-689.87	912.00	0.00	604948.89	623302.94	N 32 39 45.97 W 104	4 1.15
	9700.00	90.00	90.29	8840.00	1015.42	-690.37	1012.00	0.00	604948.39	623402.93	N 32 39 45.96 W 104	3 59.98
	9800.00	90.00	90.29	8840.00	1115.42	-690.87	1112.00	0.00	604947.89	623502.92	N 32 39 45.95 W 104	3 58.81
	9900.00	90.00	90.29	8840.00	1215.42	-691.37	1211.99	0.00	604947.39	623602.91	N 32 39 45.94 W 104	3 57.64
	10000.00	90.00	90.29	8840.00	1315.42	-691.86	1311.99	0.00	604946.90	623702.90	N 32 39 45.94 W 104	3 56.47
	10100.00	90.00	90.29	8840.00	1415.42	-692.36	1411.99	0.00	604946.40	623802.89	N 32 39 45.93 W 104	3 55.30
	10200.00	90.00	90.29	8840.00	1515.42	-692.86	1511.99	0.00	604945.90	623902.88	N 32 39 45.92 W 104	3 54.13
	10300.00	90.00	90.29	8840.00	1615.42	-693.36	1611.99	0.00	604945.40	624002.87	N 32 39 45.91 W 104	3 52.96
	10400.00	90.00	90.29	8840.00	1715.42	-693.85	1711.99	0.00	604944.91	624102.86	N 32 39 45.91 W 104	3 51.79
	10500.00	90.00	90.29	8840.00	1815.42	-694.35	1811.99	0.00	604944.41	624202.85	N 32 39 45.90 W 104	3 50.62
	10600.00	90.00	90.29	8840.00	1915.42	-694.85	1911.99	0.00	604943.91	624302.84	N 32 39 45.89 W 104	3 49.45
	10700.00	90.00	90.29	8840.00	2015.42	-695.35	2011.98	0.00	604943.41	624402.83	N 32 39 45.88 W 104	3 48.28
	10800.00	90.00	90.29	8840.00	2115.42	-695.84	2111.98	0.00	604942.92	624502.82	N 32 39 45.88 W 104	3 47.11
	10900.00	90.00	90.29	8840.00	2215.42	-696.34	2211.98	0.00	604942.42	624602.81	N 32 39 45.87 W 104	3 45.94
	11000.00	90.00	90.29	8840.00	2315.42	-696.84	2311.98	0.00	604941.92	624702.80	N 32 39 45.86 W 104	3 44.77
	11100.00	90.00	90.29	8840.00	2415.42	-697.34	2411.98	0.00	604941.42	624802.79	N 32 39 45.85 W 104	3 43.60
	11200.00	90.00	90.29	8840.00	2515.42	-697.83	2511.98	0.00	604940.93	624902.78	N 32 39 45.85 W 104	3 42.43
	11300.00	90.00	90.29	8840.00	2615.42	-698.33	2611.98	0.00	604940.43	625002.77	N 32 39 45.84 W 104	3 41.26
	11400.00	90.00	90.29	8840.00	2715.42	-698.83	2711.98	0.00	604939.93	625102.76	N 32 39 45.83 W 104	3 40.09
	11500.00	90.00	90.29	8840.00	2815.42	-699.33	2811.97	0.00	604939.43	625202.75	N 32 39 45.82 W 104	3 38.92
	11600.00	90.00	90.29	8840.00	2915.42	-699.82	2911.97	0.00	604938.94	625302.74	N 32 39 45.82 W 104	3 37.75
	11700.00	90.00	90.29	8840.00	3015.42	-700.32	3011.97	0.00	604938.44	625402.74	N 32 39 45.81 W 104	3 36.58
	11800.00	90.00	90.29	8840.00	3115.42	-700.82	3111.97	0.00	604937.94	625502.73	N 32 39 45.80 W 104	3 35.41
	11900.00	90.00	90.29	8840.00	3215.42	-701.32	3211.97	0.00	604937.44	625602.72	N 32 39 45.79 W 104	3 34.24
	12000.00	90.00	90.29	8840.00	3315.42	-701.81	3311.97	0.00	604936.95	625702.71	N 32 39 45.79 W 104	3 33.07
	12100.00	90.00	90.29	8840.00	3415.42	-702.31	3411.97	0.00	604936.45	625802.70	N 32 39 45.78 W 104	3 31.90
	12200.00	90.00	90.29	8840.00	3515.42	-702.81	3511.97	0.00	604935.95	625902.69	N 32 39 45.77 W 104	3 30.73
	12300.00	90.00	90.29	8840.00	3615.42	-703.31	3611.96	0.00	604935.45	626002.68	N 32 39 45.76 W 104	3 29.57
	12400.00	90.00	90.29	8840.00	3715.42	-703.80	3711.96	0.00	604934.96	626102.67	N 32 39 45.76 W 104	3 28.40
	12500.00	90.00	90.29	8840.00	3815.42	-704.30	3811.96	0.00	604934.46	626202.66	N 32 39 45.75 W 104	3 27.23
	12600.00	90.00	90.29	8840.00	3915.42	-704.80	3911.96	0.00	604933.96	626302.65	N 32 39 45.74 W 104	3 26.06
	12700.00	90.00	90.29	8840.00	4015.4							

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 ° ' ")
	17000.00	90.00	90.29	8840.00	8315.42	-726.69	8311.91	0.00	604912.08	630702.22	N 32 39 45.41 W 104	2 34.59
	17100.00	90.00	90.29	8840.00	8415.42	-727.18	8411.91	0.00	604911.58	630802.21	N 32 39 45.40 W 104	2 33.42
	17200.00	90.00	90.29	8840.00	8515.42	-727.68	8511.90	0.00	604911.08	630902.20	N 32 39 45.39 W 104	2 32.25
	17300.00	90.00	90.29	8840.00	8615.42	-728.18	8611.90	0.00	604910.58	631002.19	N 32 39 45.39 W 104	2 31.08
	17400.00	90.00	90.29	8840.00	8715.42	-728.68	8711.90	0.00	604910.09	631102.18	N 32 39 45.38 W 104	2 29.91
	17500.00	90.00	90.29	8840.00	8815.42	-729.17	8811.90	0.00	604909.59	631202.17	N 32 39 45.37 W 104	2 28.74
	17600.00	90.00	90.29	8840.00	8915.42	-729.67	8911.90	0.00	604909.09	631302.16	N 32 39 45.36 W 104	2 27.57
	17700.00	90.00	90.29	8840.00	9015.42	-730.17	9011.90	0.00	604908.59	631402.15	N 32 39 45.36 W 104	2 26.40
	17800.00	90.00	90.29	8840.00	9115.42	-730.67	9111.90	0.00	604908.10	631502.14	N 32 39 45.35 W 104	2 25.23
	17900.00	90.00	90.29	8840.00	9215.42	-731.16	9211.90	0.00	604907.60	631602.13	N 32 39 45.34 W 104	2 24.06
	18000.00	90.00	90.29	8840.00	9315.42	-731.66	9311.89	0.00	604907.10	631702.12	N 32 39 45.33 W 104	2 22.89
	18100.00	90.00	90.29	8840.00	9415.42	-732.16	9411.89	0.00	604906.60	631802.11	N 32 39 45.32 W 104	2 21.72
	18200.00	90.00	90.29	8840.00	9515.42	-732.66	9511.89	0.00	604906.11	631902.10	N 32 39 45.32 W 104	2 20.55
	18300.00	90.00	90.29	8840.00	9615.42	-733.15	9611.89	0.00	604905.61	632002.09	N 32 39 45.31 W 104	2 19.38
	18400.00	90.00	90.29	8840.00	9715.42	-733.65	9711.89	0.00	604905.11	632102.08	N 32 39 45.30 W 104	2 18.21
	18500.00	90.00	90.29	8840.00	9815.42	-734.15	9811.89	0.00	604904.61	632202.07	N 32 39 45.29 W 104	2 17.04
	18600.00	90.00	90.29	8840.00	9915.42	-734.65	9911.89	0.00	604904.12	632302.06	N 32 39 45.29 W 104	2 15.88
	18700.00	90.00	90.29	8840.00	10015.42	-735.14	10011.89	0.00	604903.62	632402.05	N 32 39 45.28 W 104	2 14.71
Cimarex Parkway 15-14 North State Com 2H - PHBL [1915' FNL, 100' FEL]	18750.16	90.00	90.29	8840.00	10065.58	-735.39	10062.05	0.00	604903.37	632452.21	N 32 39 45.28 W 104	2 14.12

Survey Type: Non-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	Parkway 15-14 North State Com 2H / Cimarex Parkway 15-14 North State Com 2H Rev0 RM
	1	26.000	18750.164	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS	Parkway 15-14 North State Com 2H / Cimarex Parkway 15-14

Cimarex Parkway 15-14 North State Com 2H Rev0 RM 17Sept19 Proposal

Geodetic Report

(Non-Def Plan)



Report Date: September 19, 2019 - 01:11 PM
Client: Cimarex Energy
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Parkway 15-14 North State Com 2H / New Slot
Well: Parkway 15-14 North State Com 2H
Borehole: Parkway 15-14 North State Com 2H
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Parkway 15-14 North State Com 2H Rev0 RM 17Sept19
Survey Date: September 17, 2019
Tort / AHD / DDI / ERD Ratio: 109.462 ° / 10744.458 ft / 6.397 / 1.215
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 39' 52.81364", W 104° 4' 11.79446"
Location Grid N/E Y/X: N 605638.700 ftUS, E 622391.020 ftUS
CRS Grid Convergence Angle: 0.1422 °
Grid Scale Factor: 0.99991661
Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.285 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3370.500 ft above MSL
Seabed / Ground Elevation: 3344.500 ft above MSL
Magnetic Declination: 7.259 °
Total Gravity Field Strength: 998.5139mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47962.968 nT
Magnetic Dip Angle: 60.412 °
Declination Date: September 19, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1422 °
Total Corr Mag North->Grid North: 7.1172 °
Local Coord Referenced To: Well Head

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 [1230' FNL, 390' FWL]	0.00	0.00	94.18	0.00	0.00	0.00	0.00	N/A	605638.70	622391.02	N 32 39 52.81	W 104 4 11.79
Nudge 2"/100'	2000.00	0.00	179.74	2000.00	0.00	0.00	0.00	0.00	605638.70	622391.02	N 32 39 52.81	W 104 4 11.79
Hold Nudge	2486.55	9.73	179.74	2484.21	0.39	-41.22	0.18	2.00	605597.49	622391.20	N 32 39 52.41	W 104 4 11.79
Drop to Vertical	6053.66	9.73	179.74	6000.00	6.09	-644.13	2.89	0.00	604994.62	622393.91	N 32 39 46.44	W 104 4 11.78
2"/100' DLS												
Hold Vertical	6540.21	0.00	179.74	6484.21	6.48	-685.35	3.07	2.00	604953.41	622394.09	N 32 39 46.03	W 104 4 11.78
KOP - Build	8418.53	0.00	179.74	8362.54	6.48	-685.35	3.07	0.00	604953.41	622394.09	N 32 39 46.03	W 104 4 11.78
12"/100' DLS												
Landing Point	9168.53	90.00	90.29	8840.00	483.95	-687.73	480.53	12.00	604951.03	622871.51	N 32 39 46.00	W 104 4 6.19
Cimarex												
Parkway 15-14												
North State Com												
2H - PHBL	18750.16	90.00	90.29	8840.00	10065.58	-735.39	10062.05	0.00	604903.37	632452.21	N 32 39 45.28	W 104 2 14.12
[1915' FNL, 100' FEL]												

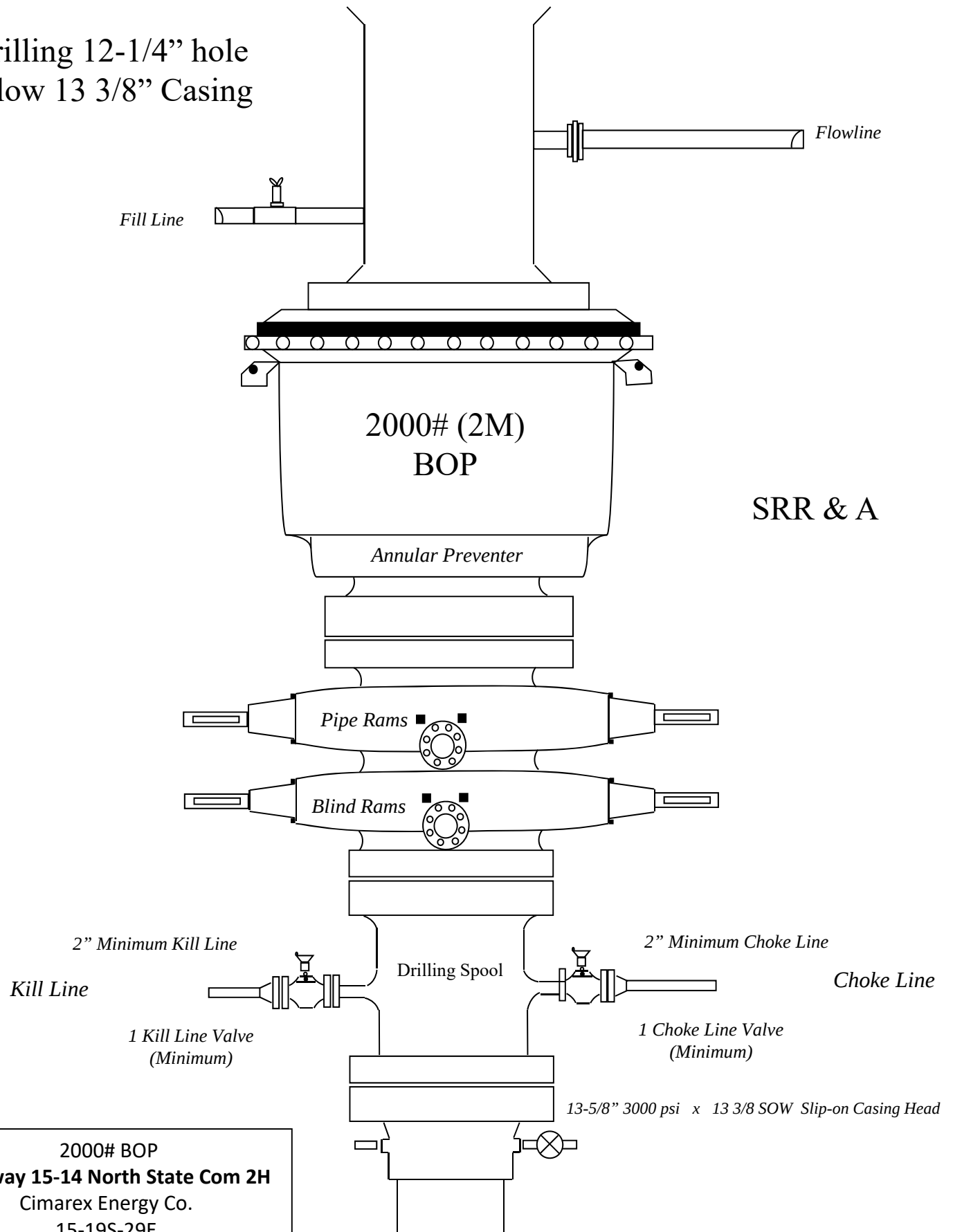
Survey Type: Non-Def Plan

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	Parkway 15-14 North State Com 2H / Cimarex Parkway 15-14
	1	26.000	18750.164	1/100.000	30.000	30.000		NAL_MWD_IFR1+MS	North State Com 2H Rev0 RM Parkway 15-14 North State Com 2H / Cimarex Parkway 15-14

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1230' FNL, 390' FWL]	0.00	0.00	94.18	0.00	0.00	0.00	0.00	
Rustler	300.00	0.00	179.74	300.00	0.00	0.00	0.00	0.00
Top Salt	340.00	0.00	179.74	340.00	0.00	0.00	0.00	0.00
Base Salt	930.00	0.00	179.74	930.00	0.00	0.00	0.00	0.00
Yates	1200.00	0.00	179.74	1200.00	0.00	0.00	0.00	0.00
Nudge 2"/100' DLS	2000.00	0.00	179.74	2000.00	0.00	0.00	0.00	0.00
Queen	2140.06	2.80	179.74	2140.00	0.03	-3.42	0.02	2.00
Hold Nudge	2486.55	9.73	179.74	2484.21	0.39	-41.22	0.18	2.00
Capitan	3106.25	9.73	179.74	3095.00	1.38	-145.96	0.65	0.00
Delaware	3314.24	9.73	179.74	3300.00	1.71	-181.12	0.81	0.00
Drop to Vertical 2"/100' DLS	6053.66	9.73	179.74	6000.00	6.09	-644.13	2.89	0.00
Hold Vertical	6540.21	0.00	179.74	6484.21	6.48	-685.35	3.07	2.00
1st BS Sand	7005.99	0.00	179.74	6950.00	6.48	-685.35	3.07	0.00
2nd BS Sand	7765.99	0.00	179.74	7710.00	6.48	-685.35	3.07	0.00
KOP - Build 12"/100' DLS	8418.53	0.00	179.74	8362.54	6.48	-685.35	3.07	0.00
3rd BS Sand	8793.31	44.97	90.29	8700.00	146.18	-686.05	142.76	12.00
Landing Point	9168.53	90.00	90.29	8840.00	483.95	-687.73	480.53	12.00
Cimarex Parkway 15-14 North State Com 2H - PHBL [1915' FNL, 100' FEL]	18750.16	90.00	90.29	8840.00	10065.58	-735.39	10062.05	0.00
Wolfcamp	NaN			9030.00				

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



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

Fill Line

Flowline

3000# (3M)
BOP

Annular Preventer

SRR & A

Pipe Rams

Blind Rams

2" Minimum Kill Line

3" minimum choke line

Kill Line

Drilling
Spool

Choke Line

2 Valves Minimum
(including 1 check valve)

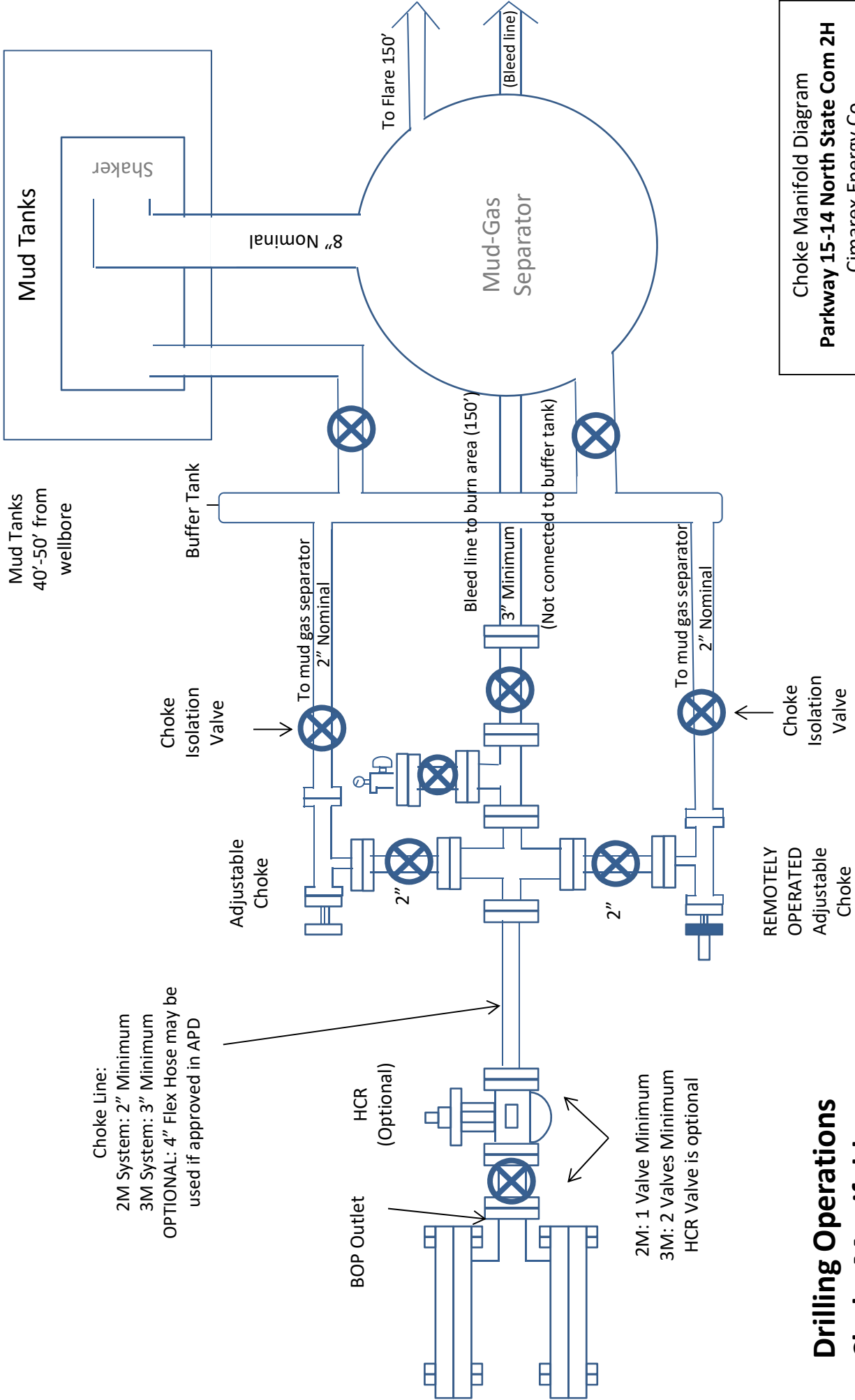
2 Valves Minimum

13-5/8" 3000 psi x 11" 5000 psi
Wellhead Assembly

Wellhead
Assembly

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

3000# BOP
Parkway 15-14 North State Com 2H
Cimarex Energy Co.
15-19S-29E
Eddy Co., NM



Choke Line:
 2M System: 2" Minimum
 3M System: 3" Minimum
 OPTIONAL: 4" Flex Hose may be used if approved in APD

BOP Outlet
 HCR (Optional)

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

Drilling Operations
Choke Manifold
2M/3M Service

Choke Manifold Diagram
Parkway 15-14 North State Com 2H
 Cimarex Energy Co.
 15-19S-29E
 Eddy Co., NM

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

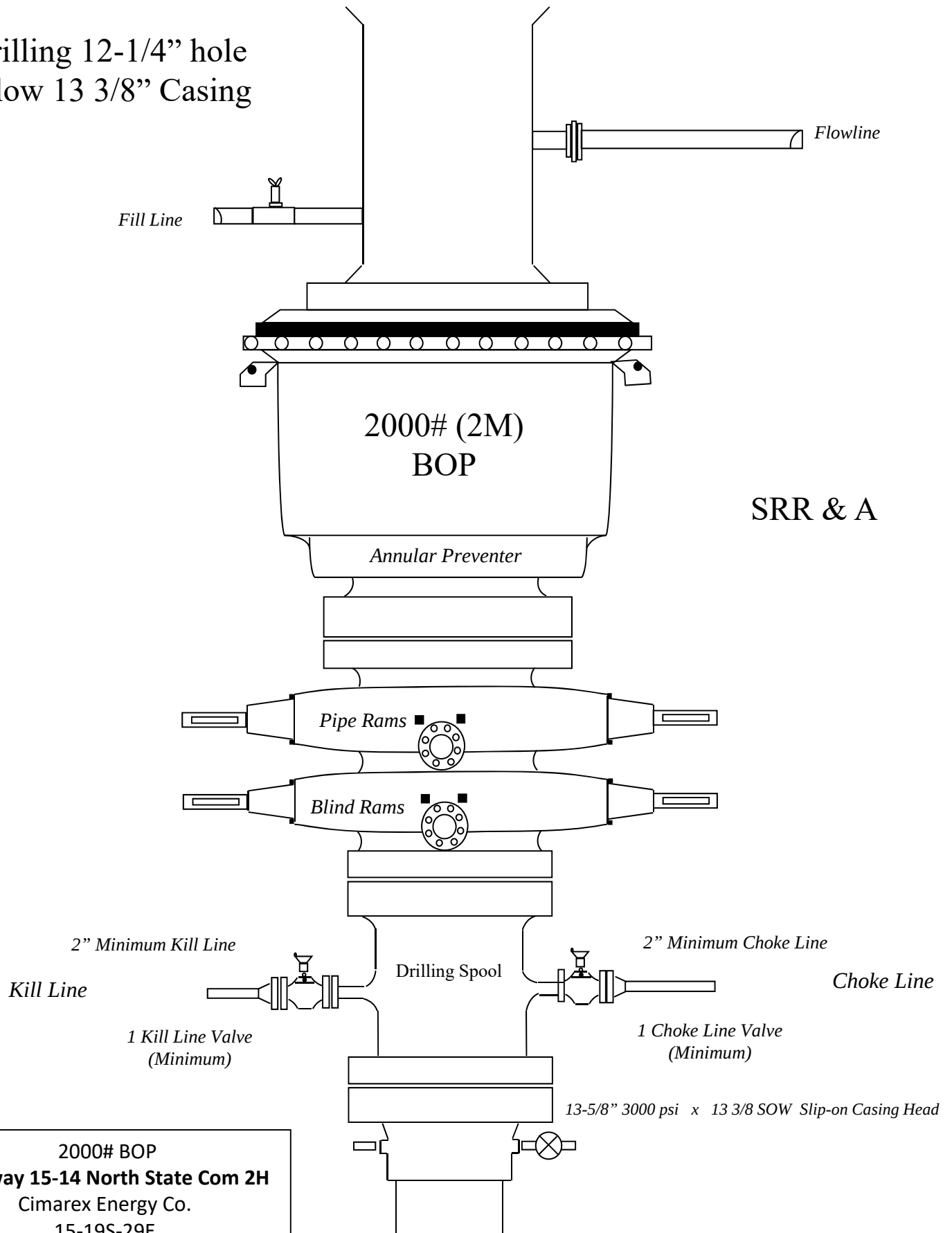
Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

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



2000# BOP
Parkway 15-14 North State Com 2H
Cimarex Energy Co.
15-19S-29E
Eddy Co., NM

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

Fill Line

Flowline

3000# (3M)
BOP

Annular Preventer

SRR & A

Pipe Rams

Blind Rams

2" Minimum Kill Line

3" minimum choke line

Kill Line

Drilling
Spool

Choke Line

2 Valves Minimum
(including 1 check valve)

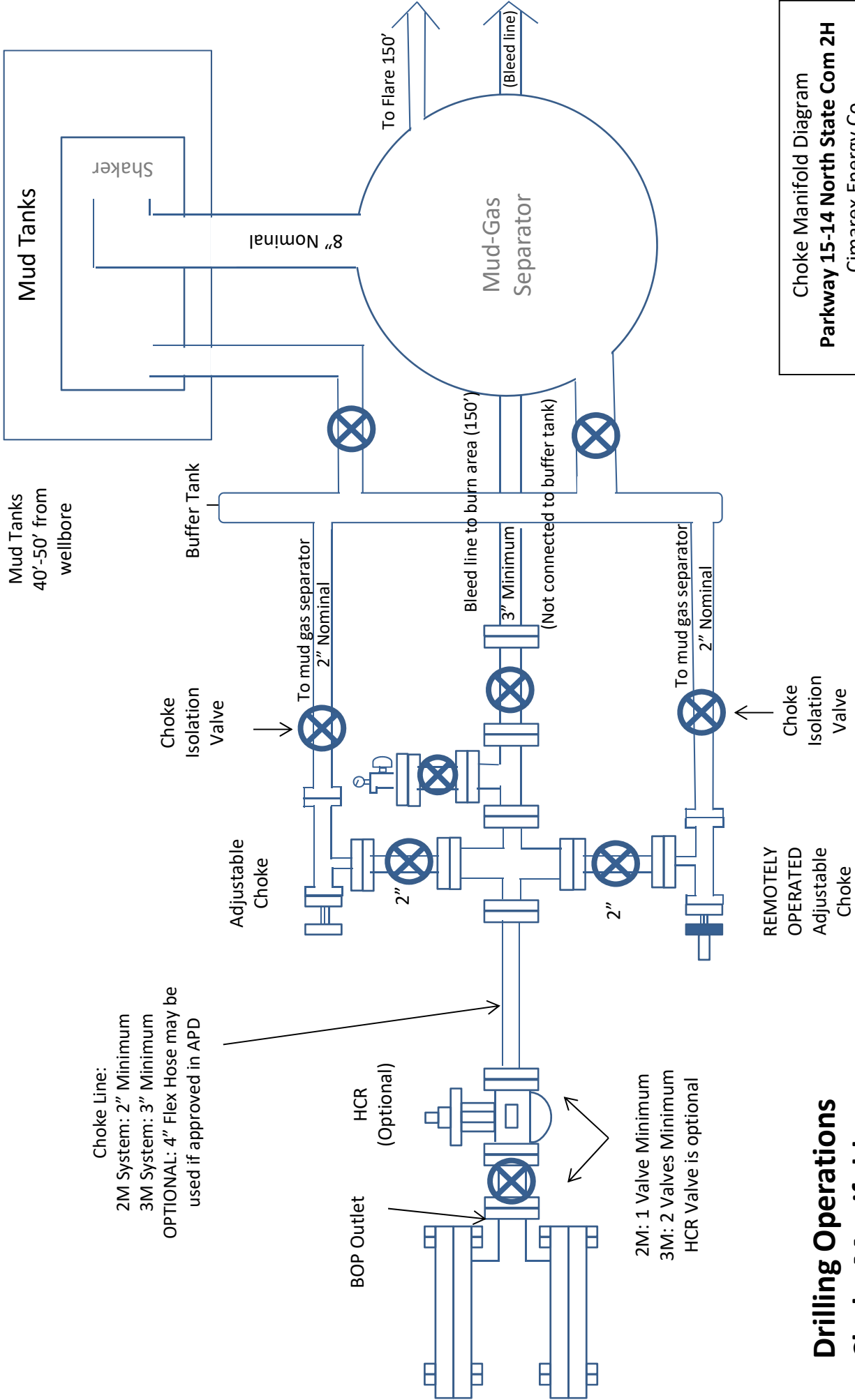
2 Valves Minimum

13-5/8" 3000 psi x 11" 5000 psi
Wellhead Assembly

Wellhead
Assembly

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

3000# BOP
Parkway 15-14 North State Com 2H
Cimarex Energy Co.
15-19S-29E
Eddy Co., NM



Choke Line:
 2M System: 2" Minimum
 3M System: 3" Minimum
 OPTIONAL: 4" Flex Hose may be used if approved in APD

BOP Outlet
 HCR
 (Optional)

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

Drilling Operations
Choke Manifold
2M/3M Service

Choke Manifold Diagram
Parkway 15-14 North State Com 2H
 Cimarex Energy Co.
 15-19S-29E
 Eddy Co., NM