

Form 3160-3
(April 2004)FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
~~541~~ ~~Bill~~
NM-28500, LC-063622
6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

Pending

8. Lease Name and Well No.

Penny Pincher Federal Com No. 4 #

9. API Well No.

30-015- 38997

10. Field and Pool, or Exploratory

Hackberry; Bone Spring, NW

11. Sec., T. R. M. or Blk. and Survey or Area

21-19S-31E

12. County or Parish

Eddy

13. State

NM

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drig. unit line if
any) 330

16. No of acres in lease

NM-28500 - 80 acres
LC-063622 - 1080 acres

17. Spacing Unit dedicated to this well

E2E2 160 acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

N/A

19. Proposed Depth

MD 13512, TVD 8999

20. BLM/BIA Bond No. on File

NM-2575

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3499' GR

22. Approximate date work will start*

03.15.11

23. Estimated duration

25-30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator Certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Zeno Farris

Name (Printed/Typed)

Zeno Farris

Date

01.05.11

Title

Manager Operations Administration

Approved By (Signature)

/s/ Don Peterson

Name (Printed/Typed)

Date

APR 13 2011

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

* (Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

Application to Drill
Penny Pincher Federal Com No. 4
 Cimarex Energy Co. of Colorado
 Unit A, Section 21
 T19S-R31E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1 Location: SHL 330 FNL & 990 FEL
 BHL 330 FSL & 375 FEL

- 2 Elevation above sea level: 3499' GR

- 3 Geologic name of surface formation: Quaternary Alluvium Deposits

- 4 Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

- 5 Proposed drilling depth: MD 13512, TVD 8999

- 6 Estimated tops of geological markers:

Rustler	500'	Bone Spring	6650
T Salt	800'	Upper Bone Spring Shale	7200
B Salt	2150'	1st BSS	7900
Delaware Sands	4500	2nd BSS	8720

- 7 Possible mineral bearing formation:

Delaware	Oil
Bone Spring	Oil

8 Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 565'	8.4 - 8.6	28	NC	FW
565' to 2600'	10.0	30-32	NC	Brine
2600' to 4200'	10.0	30-32	NC	FW, brine
4200' to 13512'	8.4	28-32	NC	2% KCl

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Application to Drill
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 Cimarex Energy Co. of Colorado
 Unit A, Section 21
 T19S-R31E, Eddy County, NM

8a Drilling Plan

After setting surface 1 and 2 and intermediate casing, drill 8 3/4" hole to KOP @ 8733 and drill to TD @ 13512 MD, 8999 TVD. Run 5 1/2" 17# P110 from 0-13512. Use LTC from 0-8633, BTC from 8633-9052, and LTC from 9052-13512.

9 Casing & Cementing Program:

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface 1	26"	0' to 565'	New 20"	94#	BTC	J/K-55
Surface 2	17 1/2"	0' to 2150 2600'	New 13 3/4"	61#	BTC	J-55
Intermediate	12 1/4"	0' to 4200'	New 9 3/4"	40#	LTC	J/K-55
Production	8 3/4"	0' to 13512'	New 5 1/2"	17#	LTC	P-110

10 Cementing:

Surface 1 1325SKS Halcem C + 2% CaCl 14.8ppg 1.35yield 100% Excess
TOC Surface

Surface 2 Lead: 1365SKS EconoCem + 5% salt + 5 lbm gilsonite 13.5ppg 1.75yield 70% Excess
 Tail: 455SKS HalCem + 2% CaCl 14.8ppg 1.35 yield
TOC Surface

Intermediate Lead: 830SKS EconoCem + 5% salt + 5 lbm gilsonite 12.9ppg 1.85yield 70% Excess
 Tail: 215SKS HalCem + 1% CaCl 14.8ppg 1.34 yield
TOC Surface

Production Lead: 1250SKS EconoCem - H + 0.5% CFR-3 + 0.1% HR-601 11.9ppg 2.44 yield 70% % Excess
 Tail: 200SKS Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601 16.5ppg
 1.06 yield
TOC 3800'

According to the state engineer, depth to ground water is 290. Fresh water zones will be protected by setting 20" casing at 565 and cementing to surface, and 13 3/4" casing at ~~2600~~ and cementing to surface. Hydrocarbon zones will be protected by setting 9 3/4" casing at 4200 and cementing to surface, and by setting 5 1/2" casing at 13512 and cementing to 3800.

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

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Cimarex Energy Co. of Colorado
Unit A, Section 21
T19S-R31E, Eddy County, NM

11 Pressure control Equipment:

Exhibit "E". A 13 $\frac{3}{8}$ " 5000 PSI working pressure B.O.P. tested to 3000 PSI consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000.' A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the 20" surface pipe, the well will be equipped with a 2M diverter system with rotating head (see exhibit E-1). From the base of the surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system tested to 3000 psi.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high.

Cimarex Energy Co. of Colorado (operator) requests a variance if Cactus 115 (rig name) is used to drill this well to use a co-flex line between the BOP and choke manifold.

Manufacturer: Midwest Hose & Specialty

Serial Number: 63270

Length: 35' Size: 4-1/16" Ends - flanges/clamps

WP rating: 10,000 psi Anchors required by manufacturer - Yes/No

12 Testing, Logging and Coring Program: *See CoA*

- A. Mud logging program: 2 man unit from 4200 to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.

13 Potential Hazards:

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP **3000 psi** Estimated BHT **130°**

14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take 30-35 days

If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potentialized as **an oil well.**



Cimarex Energy Co.

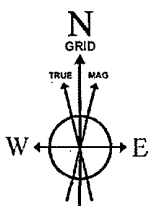
Location: Eddy County, NM
Field: (Penny) Sec 21, T19S, R31E
Facility: Penny Pincher Fed Com No. 4H

Slot: No. 4H SHL
Well: No. 4H
Wellbore: No. 4H PWB



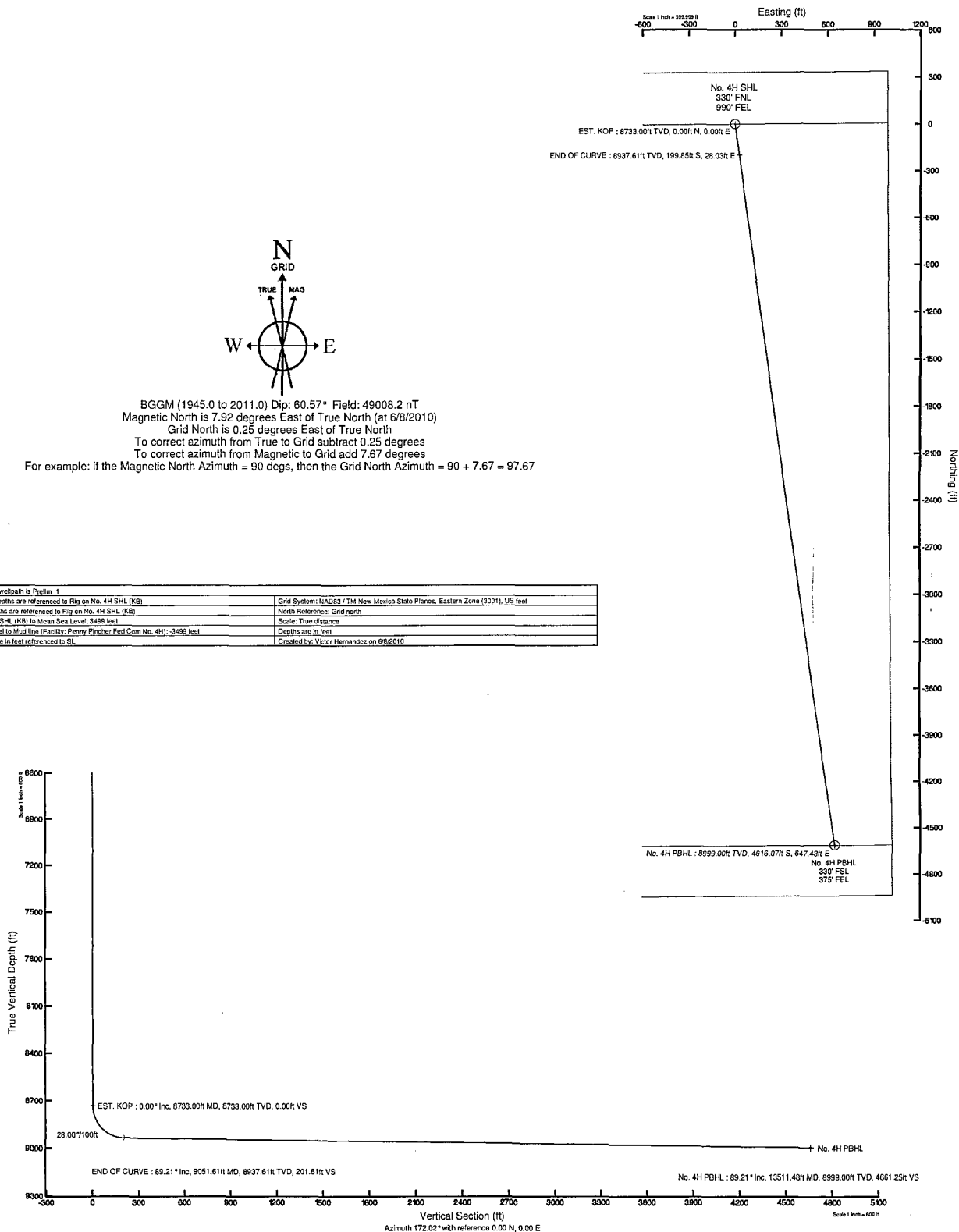
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	172.016	0.00	0.00	0.00	0.00	0.00
EST. KOP	8733.00	0.000	172.016	8733.00	0.00	0.00	0.00	0.00
END OF CURVE	9051.61	89.211	172.016	8937.61	-199.85	28.03	28.00	201.81
No. 4H PBHL	13511.48	89.211	172.016	8999.00	-4616.07	647.43	0.00	4661.25



BGGM (1945.0 to 2011.0) Dip: 60.57° Field: 49008.2 nT
Magnetic North is 7.92 degrees East of True North (at 6/8/2010)
Grid North is 0.25 degrees East of True North
To correct azimuth from True to Grid subtract 0.25 degrees
To correct azimuth from Magnetic to Grid add 7.67 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.67 = 97.67

Plot reference wellbore is Prelim 1	
True vertical depths are referenced to Rig on No. 4H SHL (KB)	Grid System: NAD83 / TM New Mexico State Planes, Eastern Zone (2001), US feet
Measured depths are referenced to Rig on No. 4H SHL (KB)	North Reference: Grid north
Rig on No. 4H SHL (KB) to Mean Sea Level: 3499 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Penny Pincher Fed Com No. 4H): -3499 feet	Depths are in feet
Coordinates are in feet referenced to SL	Created by Victor Hernandez on 6/8/2010





Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Penny) Sec 21, T19S, R31E	Wellbore	No. 4H PWB
Facility	Penny Pincher Fed Com No. 4H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999932	Report Generated	6/8/2010 at 10:30:27 AM
Convergence at slot	0.25° East	Database/Source file	WA_Midland/No. 4H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	684271.20	601343.70	32°39'08.215"N	103°52'08.124"W
Facility Reference Pt			684271.20	601343.70	32°39'08.215"N	103°52'08.124"W
Field Reference Pt			681958.50	601329.30	32°39'08.172"N	103°52'35.176"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to GL	0.00ft
Horizontal Reference Pt	SL	Rig on No. 4H SHL (KB) to Mean Sea Level	3499.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	172.02°



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WELLPATH DATA (51 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	172.016	0.00	0.00	0.00	0.00	684271.20	601343.70	32°39'08.215"N	103°52'08.124"W	0.00	Tie On
8733.00	0.000	172.016	8733.00	0.00	0.00	0.00	684271.20	601343.70	32°39'08.215"N	103°52'08.124"W	0.00	EST. KOP
8833.00†	28.000	172.016	8829.07	23.95	-23.72	3.33	684274.53	601319.98	32°39'07.980"N	103°52'08.087"W	28.00	
8933.00†	56.000	172.016	8902.64	90.20	-89.33	12.53	684283.73	601254.38	32°39'07.331"N	103°52'07.982"W	28.00	
9033.00†	84.000	172.016	8936.51	183.24	-181.46	25.45	684296.65	601162.25	32°39'06.419"N	103°52'07.836"W	28.00	
9051.61	89.211	172.016	8937.61	201.81	-199.85	28.03	684299.23	601143.86	32°39'06.237"N	103°52'07.807"W	28.00	END OF CURVE
9133.00†	89.211	172.016	8938.73	283.19	-280.45	39.33	684310.53	601063.27	32°39'05.439"N	103°52'07.679"W	0.00	
9233.00†	89.211	172.016	8940.11	383.18	-379.47	53.22	684324.42	600964.26	32°39'04.458"N	103°52'07.521"W	0.00	
9333.00†	89.211	172.016	8941.48	483.17	-478.49	67.11	684338.31	600865.24	32°39'03.478"N	103°52'07.364"W	0.00	
9433.00†	89.211	172.016	8942.86	583.16	-577.51	81.00	684352.19	600766.23	32°39'02.498"N	103°52'07.207"W	0.00	
9533.00†	89.211	172.016	8944.23	683.15	-676.53	94.89	684366.08	600667.22	32°39'01.517"N	103°52'07.049"W	0.00	
9633.00†	89.211	172.016	8945.61	783.14	-775.55	108.78	684379.97	600568.20	32°39'00.537"N	103°52'06.892"W	0.00	
9733.00†	89.211	172.016	8946.99	883.13	-874.57	122.66	684393.86	600469.19	32°38'59.557"N	103°52'06.734"W	0.00	
9833.00†	89.211	172.016	8948.36	983.13	-973.60	136.55	684407.74	600370.17	32°38'58.576"N	103°52'06.577"W	0.00	
9933.00†	89.211	172.016	8949.74	1083.12	-1072.62	150.44	684421.63	600271.16	32°38'57.596"N	103°52'06.420"W	0.00	
10033.00†	89.211	172.016	8951.12	1183.11	-1171.64	164.33	684435.52	600172.14	32°38'56.615"N	103°52'06.262"W	0.00	
10133.00†	89.211	172.016	8952.49	1283.10	-1270.66	178.22	684449.41	600073.13	32°38'55.635"N	103°52'06.105"W	0.00	
10233.00†	89.211	172.016	8953.87	1383.09	-1369.68	192.11	684463.29	599974.11	32°38'54.655"N	103°52'05.948"W	0.00	
10333.00†	89.211	172.016	8955.25	1483.08	-1468.70	206.00	684477.18	599875.10	32°38'53.674"N	103°52'05.790"W	0.00	
10433.00†	89.211	172.016	8956.62	1583.07	-1567.72	219.88	684491.07	599776.09	32°38'52.694"N	103°52'05.633"W	0.00	
10533.00†	89.211	172.016	8958.00	1683.06	-1666.74	233.77	684504.96	599677.07	32°38'51.714"N	103°52'05.476"W	0.00	
10633.00†	89.211	172.016	8959.38	1783.05	-1765.77	247.66	684518.84	599578.06	32°38'50.733"N	103°52'05.318"W	0.00	
10733.00†	89.211	172.016	8960.75	1883.04	-1864.79	261.55	684532.73	599479.04	32°38'49.753"N	103°52'05.161"W	0.00	
10833.00†	89.211	172.016	8962.13	1983.03	-1963.81	275.44	684546.62	599380.03	32°38'48.773"N	103°52'05.004"W	0.00	
10933.00†	89.211	172.016	8963.51	2083.02	-2062.83	289.33	684560.51	599281.01	32°38'47.792"N	103°52'04.846"W	0.00	
11033.00†	89.211	172.016	8964.88	2183.01	-2161.85	303.21	684574.39	599182.00	32°38'46.812"N	103°52'04.689"W	0.00	
11133.00†	89.211	172.016	8966.26	2283.00	-2260.87	317.10	684588.28	599082.98	32°38'45.832"N	103°52'04.531"W	0.00	
11233.00†	89.211	172.016	8967.64	2382.99	-2359.89	330.99	684602.17	598983.97	32°38'44.851"N	103°52'04.374"W	0.00	
11333.00†	89.211	172.016	8969.01	2482.98	-2458.92	344.88	684616.06	598884.96	32°38'43.871"N	103°52'04.217"W	0.00	
11433.00†	89.211	172.016	8970.39	2582.97	-2557.94	358.77	684629.94	598785.94	32°38'42.890"N	103°52'04.059"W	0.00	



Planned Wellpath Report

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Facility	Penny Pincher Fed Com No. 4H		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11533.00†	89.211	172.016	8971.77	2682.96	-2656.96	372.66	684643.83	598686.93	32°38'41.910"N	103°52'03.902"W	0.00	
11633.00†	89.211	172.016	8973.14	2782.95	-2755.98	386.54	684657.72	598587.91	32°38'40.930"N	103°52'03.745"W	0.00	
11733.00†	89.211	172.016	8974.52	2882.95	-2855.00	400.43	684671.61	598488.90	32°38'39.949"N	103°52'03.587"W	0.00	
11833.00†	89.211	172.016	8975.90	2982.94	-2954.02	414.32	684685.49	598389.88	32°38'38.969"N	103°52'03.430"W	0.00	
11933.00†	89.211	172.016	8977.27	3082.93	-3053.04	428.21	684699.38	598290.87	32°38'37.989"N	103°52'03.273"W	0.00	
12033.00†	89.211	172.016	8978.65	3182.92	-3152.06	442.10	684713.27	598191.85	32°38'37.008"N	103°52'03.115"W	0.00	
12133.00†	89.211	172.016	8980.02	3282.91	-3251.09	455.99	684727.15	598092.84	32°38'36.028"N	103°52'02.958"W	0.00	
12233.00†	89.211	172.016	8981.40	3382.90	-3350.11	469.88	684741.04	597993.83	32°38'35.048"N	103°52'02.801"W	0.00	
12333.00†	89.211	172.016	8982.78	3482.89	-3449.13	483.76	684754.93	597894.81	32°38'34.067"N	103°52'02.643"W	0.00	
12433.00†	89.211	172.016	8984.15	3582.88	-3548.15	497.65	684768.82	597795.80	32°38'33.087"N	103°52'02.486"W	0.00	
12533.00†	89.211	172.016	8985.53	3682.87	-3647.17	511.54	684782.70	597696.78	32°38'32.107"N	103°52'02.329"W	0.00	
12633.00†	89.211	172.016	8986.91	3782.86	-3746.19	525.43	684796.59	597597.77	32°38'31.126"N	103°52'02.171"W	0.00	
12733.00†	89.211	172.016	8988.28	3882.85	-3845.21	539.32	684810.48	597498.75	32°38'30.146"N	103°52'02.014"W	0.00	
12833.00†	89.211	172.016	8989.66	3982.84	-3944.23	553.21	684824.37	597399.74	32°38'29.165"N	103°52'01.857"W	0.00	
12933.00†	89.211	172.016	8991.04	4082.83	-4043.26	567.09	684838.25	597300.73	32°38'28.185"N	103°52'01.699"W	0.00	
13033.00†	89.211	172.016	8992.41	4182.82	-4142.28	580.98	684852.14	597201.71	32°38'27.205"N	103°52'01.542"W	0.00	
13133.00†	89.211	172.016	8993.79	4282.81	-4241.30	594.87	684866.03	597102.70	32°38'26.224"N	103°52'01.385"W	0.00	
13233.00†	89.211	172.016	8995.17	4382.80	-4340.32	608.76	684879.92	597003.68	32°38'25.244"N	103°52'01.227"W	0.00	
13333.00†	89.211	172.016	8996.54	4482.79	-4439.34	622.65	684893.80	596904.67	32°38'24.264"N	103°52'01.070"W	0.00	
13433.00†	89.211	172.016	8997.92	4582.78	-4538.36	636.54	684907.69	596805.65	32°38'23.283"N	103°52'00.913"W	0.00	
13511.48	89.211	172.016	8999.00†	4661.25	-4616.07	647.43	684918.59	596727.95	32°38'22.514"N	103°52'00.789"W	0.00	No. 4H PBHL



Planned Wellpath Report

Prelim_1
Page 4 of 4



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Penny) Sec 21, T19S, R31E	Wellbore	No. 4H PWB
Facility	Penny Pincher Fed Com No. 4H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 4H PBHL	13511.48	8999.00	-4616.07	647.43	684918.59	596727.95	32°38'22.514"N	103°52'00.789"W	point

SURVEY PROGRAM Ref Wellbore: No. 4H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13511.48	NaviTrak (Standard)		No. 4H PWB

SR & A

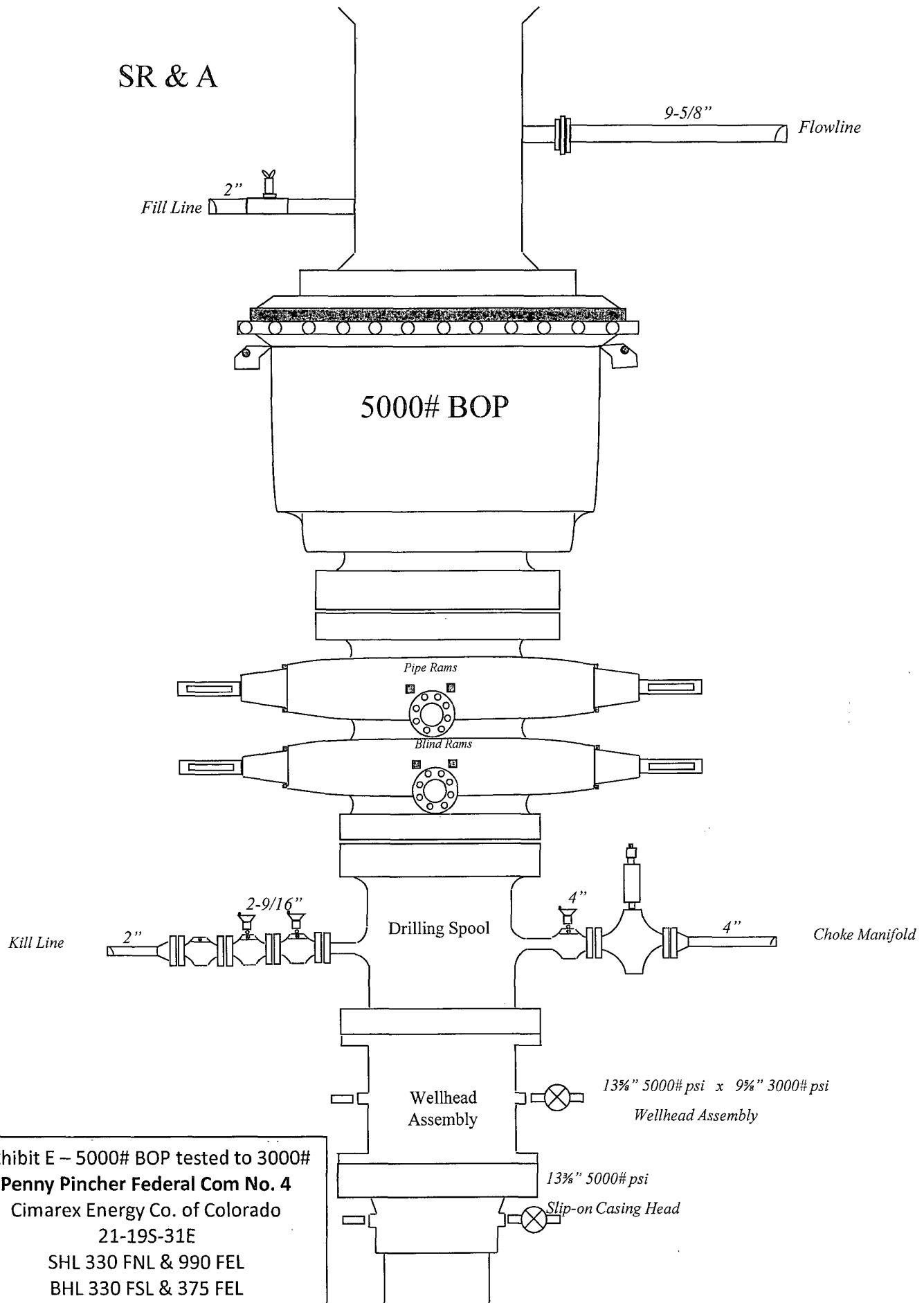


Exhibit E – 5000# BOP tested to 3000#
Penny Pincher Federal Com No. 4
Cimarex Energy Co. of Colorado
21-19S-31E
SHL 330 FNL & 990 FEL
BHL 330 FSL & 375 FEL
Eddy County, NM

20" Diverter System

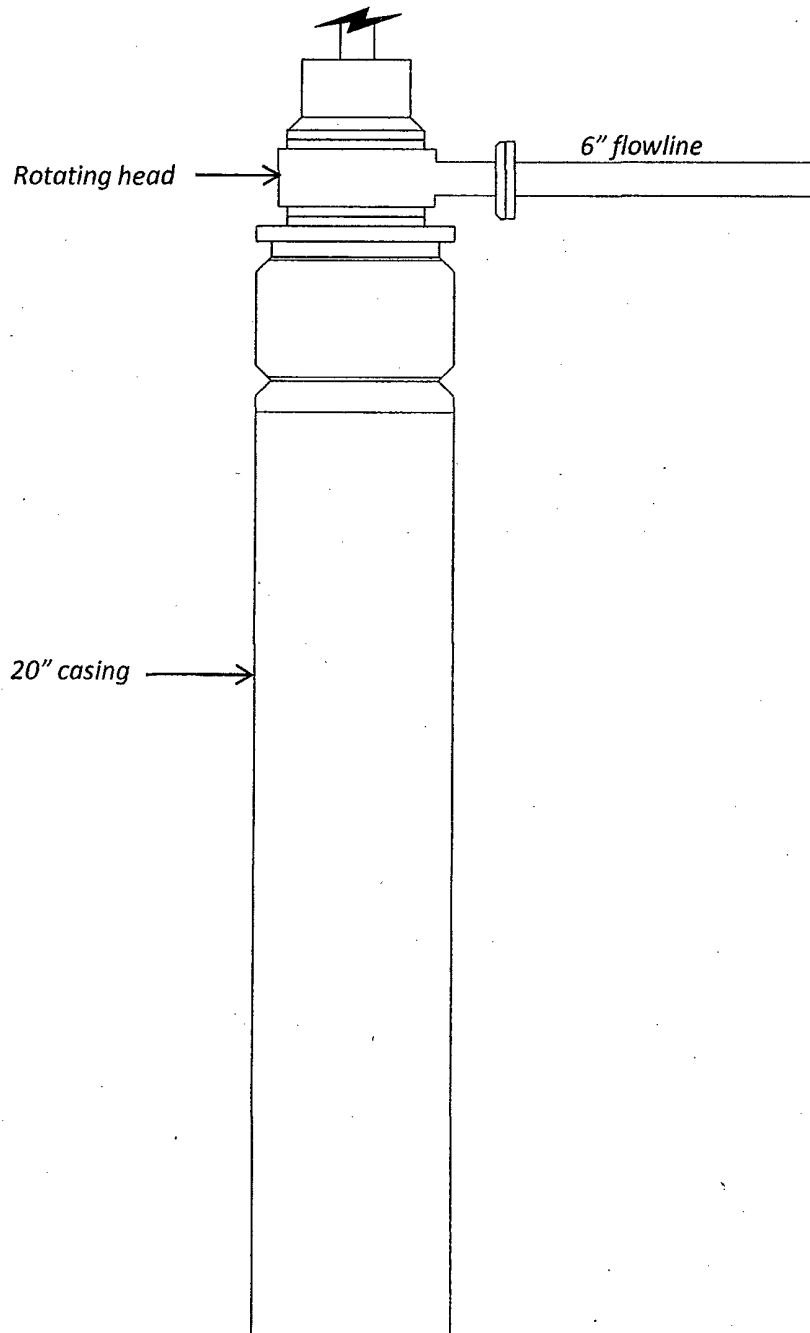
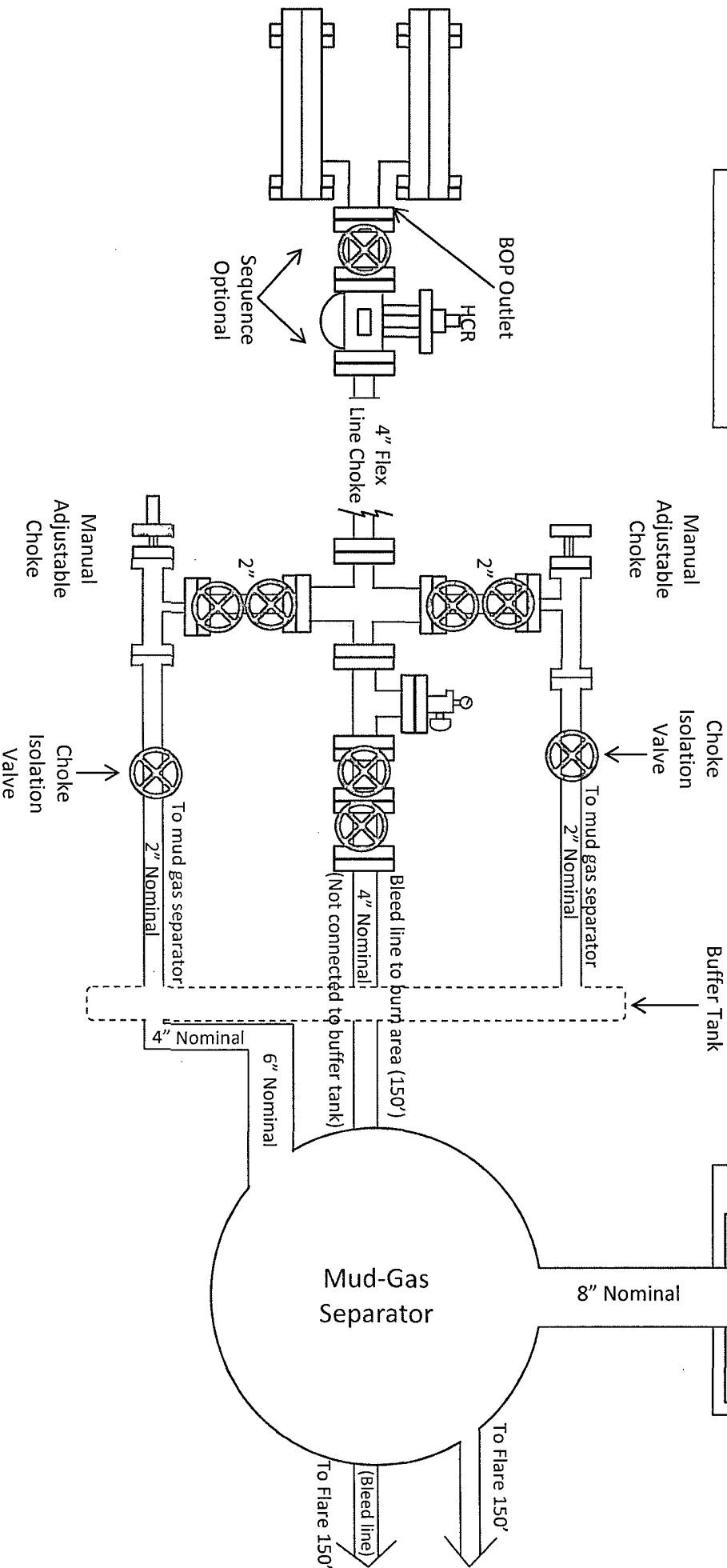
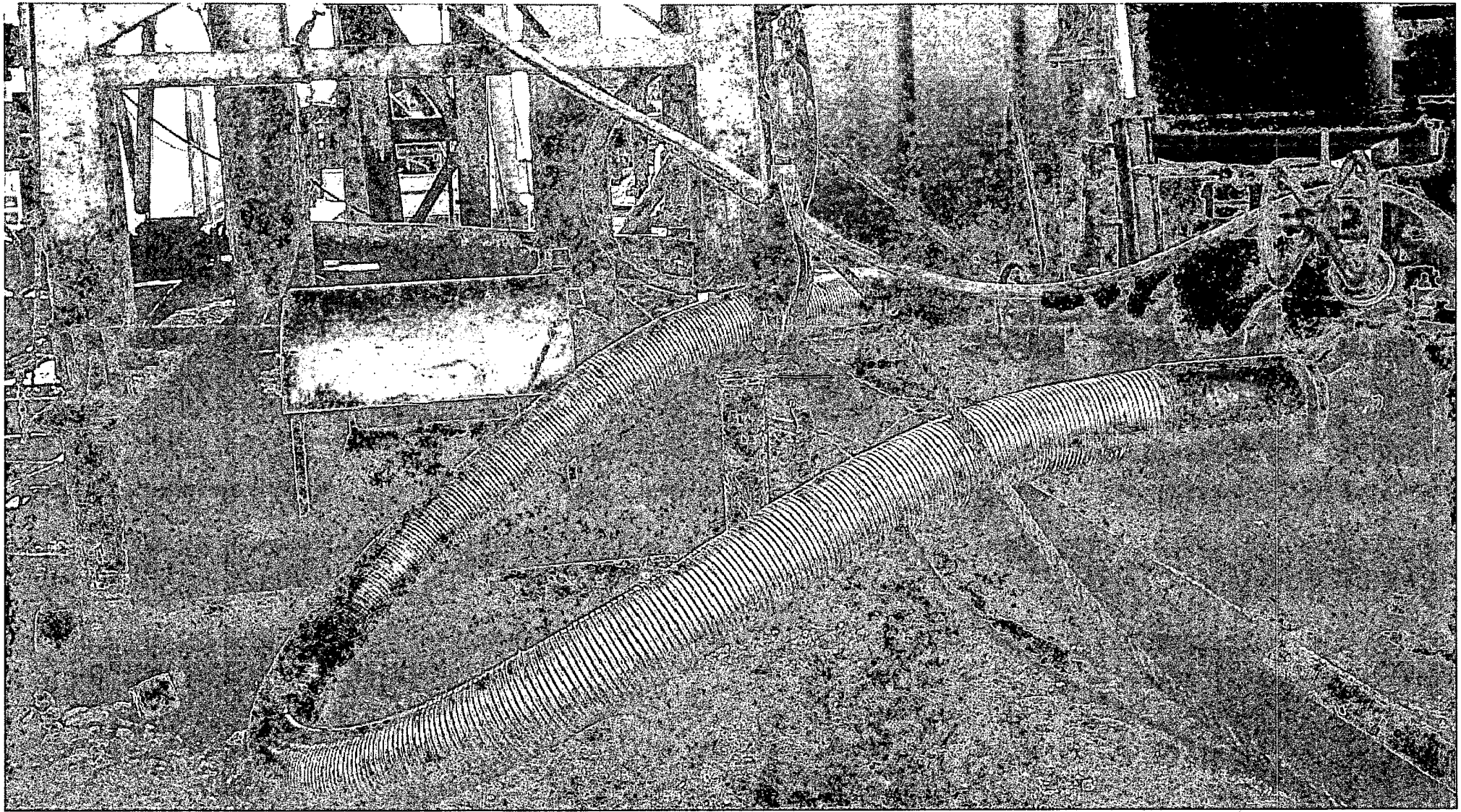


Exhibit E-1 – 20" Diverter System
Penny Pincher Federal Com No. 4
Cimarex Energy Co. of Colorado
21-19S-31E
SHL 330 FNL & 990 FEL
BHL 330 FSL & 375 FEL
Eddy County, NM

Drilling Operations
Choke Manifold
5M Service tested to 3M

Exhibit E-1 – Choke Manifold Diagram
Penny Pincher Federal Com No. 4
Cimarex Energy Co. of Colorado
21-19S-31E
SHL 330 FNL & 990 FEL
BHL 330 FSL & 375 FEL
Eddy County, NM





Cactus Rig 115
Serial # 63270

MIDWEST
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT		
Customer: CACTUS DRILLING		P.O. Number: RIG#147
HOSE SPECIFICATIONS		
Type: CHOK & KILL		Length: 35'
I.D. 4" INCHES		O.D. 8"
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000	BURST PRESSURE
COUPLINGS		
Stem Part No. E4.0X64WB		Ferrule No. FERRULE-128
Type of Coupling: 4-1/16 10K FLANGE(BX-155)		Die Size:
PROCEDURE		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
TIME HELD AT TEST PRESSURE 15 MIN.		ACTUAL BURST PRESSURE: 0 PSI
COMMENTS: SERIAL#63270		
Date: 7/14/2010	Tested By: BOBBY FINK	Approved: BRENT BURNETT



Midwest Hose
& Specialty, Inc.

Specification Sheet Choke & Kill Hose

The Midwest Hose & Specialty Choke & Kill hose is manufactured with only premium components. The reinforcement cables, inner liner and cover are made of the highest quality material to handle the tough drilling applications of today's industry. The end connections are available with API flanges, API male threads, hubs, hammer unions or other special fittings upon request. Hose assembly is manufactured to API 7K. This assembly is wrapped with fire resistant vermiculite coated fiberglass insulation, rated at 2000 degrees with stainless steel armor cover.

Working Pressure:	5,000 or 10,000 psi working pressure
Test Pressure:	10,000 or 15,000 psi test pressure
Reinforcement:	Multiple steel cables
Cover:	Stainless Steel Armor
Inner Tube:	Petroleum resistant, Abrasion resistant
End Fitting:	API flanges, API male threads, threaded or butt weld hammer unions, unbolt and other special connections
Maximum Length:	110 Feet
ID:	2-1/2", 3", 3-1/2", 4"
Operating Temperature:	-22 deg F to +180 deg F (-30 deg C to +82 deg C)