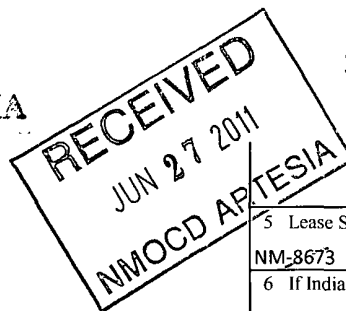


OCD-ARTESIA

SECRETARY'S POTASH

Form 3160-3
(April 2004)



FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a Type of Work: ☒ DRILL ☐ REENTER		5 Lease Serial No NM-8673 12516
1b Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6 If Indian, Allottee or Tribe Name
2 Name of Operator Cimarex Energy Co. of Colorado		7 If Unit or CA Agreement, Name and No Pending
3a Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		8 Lease Name and Well No Intrepid 3 Federal No. 2
3b Phone No (include area code) 432-571-7800		9 API Well No 30-015- 39187
4 Location of Well (Report location clearly and in accordance with any State requirements *) At Surface 3-19S-30E; 2127 FNL & 1995 FWL At proposed prod. Zone 4-19S-30E; 1980 FNL & 330 FWL (Hz. Bone Spring Test)		10 Field and Pool, or Exploratory Leo; Bone Spring, S
14 Distance in miles and direction from nearest town or post office*		11 Sec, T, R, M or Blk and Survey or Area Sections 3 & 4, 19S-30E
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line if any) 513	16 No of acres in lease NM-8673 - 401.14 acres	12 County or Parish Eddy
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft N/A	19 Proposed Depth Pilot Hole 8800 MD 15284 TVD 8450	13 State NM
21 Elevations (Show whether DF, KDB, RT, GL, etc) 3412' 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

- | | |
|---|--|
| 1 Well plat certified by a registered surveyor | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2 A Drilling Plan | 5 Operator Certification |
| 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6 Such other site specific information and/or plans as may be required by the authorized officer |

25 Signature <i>Zeno Farris</i>	Name (Printed/Typed) Zeno Farris	Date 12.30.10
Title Manager Operations Administration		
Approved By (Signature) <i>/s/ Jesse J. Juen</i>	Name (Printed/Typed) <i>/s/ Jesse J. Juen</i>	Date JUN 21 2011
Title FOR STATE DIRECTOR	Office NM STATE 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 a	OCD CONDITION OF APPROVAL of Drilling	APPROVAL FOR TWO YEARS
Title 18 U.S.C.	Intent to drill ONLY --- CANNOT produce until the Non-Standard	
States any false	Location has been approved by OCD Santa Fe office	
* (Instructions)		

CAPTAIN CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

JS 07/06/11

Application to Drill
Intrepid 3 Federal No. 2
 Cimarex Energy Co. of Colorado
 Unit F, Section 3
 T19S-R30E, 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 3-19S-30E; 2127 FNL & 1995 FWL
 BHL 4-19S-30E; 1980 FNL & 330 FWL (Hz. Bone Spring Test)
- 2 Elevation above sea level: 3412' 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 15284 TVD 8450 Pilot Hole 8800
- 6 Estimated tops of geological markers:

<u>Rustler</u>	400'		
T. Salt	680'	Bone Spring	5830'
B. Salt	1755'	1st BS Sand	7740'
Yates	2000'	2nd BS Sand	8720'
Queen	2920'		
San Andres	3580'		
Delaware	3800'		
- 7 Possible mineral bearing formation:

Bone Spring	Oil
Delaware	Oil
Yates/7R/Q/GB	Oil

8 Proposed Mud Circulating System:

** See CoA*

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 450'	8.4 - 8.6	28	NC	FW
520' 750' to 3205'	10.0	30-32	NC	Brine water
3205' to 15284'	8.4 - 9.5	30-32	NC	FW, brine

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.

Proposed drilling Plan

Drill 8¾" pilot hole to 8800 and log. Set 275 sx Class H cmt plug from 8000-8800. Kick off 8¾" lateral @ 8190 and drill to TD @ 15284. Run 5½" 17# P-110 LTC from 0-15284.

Intrepid 3 Federal No. 2
 Cimarex Energy Co. of Colorado
 Unit F, Section 3
 T19S-R30E, Eddy County, NM

9 Casing & Cementing Program:

See COA

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
<i>See COA</i> Surface	17½"	0' to 150'	New 13⅝"	48#	STC	H-40
Intermediate	12¼"	0' to 3205'	New 9⅝"	40#	LTC	J-55
Production	8¾"	0' to 15284'	New 5½"	17#	LTC	P-110

See COA

10 Cementing:

Surface

Lead: 470SKS Halcem C + 4% Bentomite + 2% CaCl 14.2ppg 1.34 yield 100% Excess

Tail: 30SKS Halcem C + 2% CaCl 14.2ppg 1.34 yield 50% Excess

TOC Surface

Intermediate

Lead: 1070SKS EconoCem + 5% salt + 5 lbm gilsonite 14.6ppg 1.54 yield 70% Excess

Tail: 195SKS HalCem + 1% CaCl 14.8ppg 1.34 yield 25% Excess

TOC Surface

Production

Lead: 970SKS EconoCem - H + 0.2 % HR-601 2.44 11.9ppg 2.44 yield 50% Excess

Tail: 1780SKS Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601 14.5ppg

1.22 yield 25% Excess

TOC 3050' 2705'

See COA

Depth to groundwater is approximately 230 according to the State Engineer. Fresh water zones will be protected by setting 13⅝" casing at 450' and cementing to surface. Hydrocarbon zones will be protected by setting 9⅝" casing at 3205 and cementing to surface, and by setting 5½" casing at 15284 and cementing to 3050.

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

11 Pressure control Equipment:

Exhibit "E". A 13⅝" 5000 PSI working pressure BOP 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 as needed. 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 13⅝" casing 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 101 (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: 59473

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

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

Application to Drill
Intrepid 3 Federal No. 2
Cimarex Energy Co. of Colorado
Unit F, Section 3
T19S-R30E, Eddy County, NM

- 12 Testing, Logging and Coring Program: *See COA*
- A. Mud logging program: 2 man unit from 3205 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.**



Planned Wellpath Report

Prelim_1

Page 1 of 6



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.2H SHL
Area	Acadia Parish	Well	No.2H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No.2H PWB
Facility	Intrepid 3 Fed Com No.2H		

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	Gomeoscr
Scale	0.999924	Report Generated	12/30/2010 at 10:47:12 AM
Convergence at slot	0.20° East	Database/Source file	WA Midland/No.2H_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	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W
Facility Reference Pt			655604.70	615254.40	32°41'26.980"N	103°57'42.856"W
Field Reference Pt			654594.30	617128.70	32°41'45.561"N	103°57'54.603"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.2H PBHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.2H PBHL (RT) to Mean Sea Level	3412.00ft
Vertical Reference Pt	Rig on No.2H PBHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No.2H PBHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.10°



Planned Wellpath Report

Prelim_1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
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WELLPATH DATA (156 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	271.104	0.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	Tie On
100.00†	0.000	271.104	100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
200.00†	0.000	271.104	200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
300.00†	0.000	271.104	300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
400.00†	0.000	271.104	400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
500.00†	0.000	271.104	500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
600.00†	0.000	271.104	600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
700.00†	0.000	271.104	700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
800.00†	0.000	271.104	800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
900.00†	0.000	271.104	900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1000.00†	0.000	271.104	1000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1100.00†	0.000	271.104	1100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1200.00†	0.000	271.104	1200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1300.00†	0.000	271.104	1300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1400.00†	0.000	271.104	1400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1500.00†	0.000	271.104	1500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1600.00†	0.000	271.104	1600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1700.00†	0.000	271.104	1700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1800.00†	0.000	271.104	1800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
1900.00†	0.000	271.104	1900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2000.00†	0.000	271.104	2000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2100.00†	0.000	271.104	2100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2200.00†	0.000	271.104	2200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2300.00†	0.000	271.104	2300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2400.00†	0.000	271.104	2400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2500.00†	0.000	271.104	2500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2600.00†	0.000	271.104	2600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2700.00†	0.000	271.104	2700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2800.00†	0.000	271.104	2800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
2900.00†	0.000	271.104	2900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3000.00†	0.000	271.104	3000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3100.00†	0.000	271.104	3100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3200.00†	0.000	271.104	3200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3300.00†	0.000	271.104	3300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3400.00†	0.000	271.104	3400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3500.00†	0.000	271.104	3500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3600.00†	0.000	271.104	3600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3700.00†	0.000	271.104	3700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3800.00†	0.000	271.104	3800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
3900.00†	0.000	271.104	3900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4000.00†	0.000	271.104	4000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4100.00†	0.000	271.104	4100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4200.00†	0.000	271.104	4200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4300.00†	0.000	271.104	4300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4400.00†	0.000	271.104	4400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.2H SHL
Area	Acadia Parish	Well	No.2H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No.2H PWB
Facility	Intrepid 3 Fed Com No.2H		

WELLPATH DATA (156 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
4500.00†	0.000	271.104	4500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4600.00†	0.000	271.104	4600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4700.00†	0.000	271.104	4700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4800.00†	0.000	271.104	4800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
4900.00†	0.000	271.104	4900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5000.00†	0.000	271.104	5000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5100.00†	0.000	271.104	5100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5200.00†	0.000	271.104	5200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5300.00†	0.000	271.104	5300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5400.00†	0.000	271.104	5400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5500.00†	0.000	271.104	5500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5600.00†	0.000	271.104	5600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5700.00†	0.000	271.104	5700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5800.00†	0.000	271.104	5800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
5900.00†	0.000	271.104	5900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6000.00†	0.000	271.104	6000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6100.00†	0.000	271.104	6100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6200.00†	0.000	271.104	6200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6300.00†	0.000	271.104	6300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6400.00†	0.000	271.104	6400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6500.00†	0.000	271.104	6500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6600.00†	0.000	271.104	6600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6700.00†	0.000	271.104	6700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6800.00†	0.000	271.104	6800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
6900.00†	0.000	271.104	6900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7000.00†	0.000	271.104	7000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7100.00†	0.000	271.104	7100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7200.00†	0.000	271.104	7200.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7300.00†	0.000	271.104	7300.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7400.00†	0.000	271.104	7400.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7500.00†	0.000	271.104	7500.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7600.00†	0.000	271.104	7600.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7700.00†	0.000	271.104	7700.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7800.00†	0.000	271.104	7800.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
7900.00†	0.000	271.104	7900.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
8000.00†	0.000	271.104	8000.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
8100.00†	0.000	271.104	8100.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	
8190.00	0.000	271.104	8190.00	0.00	0.00	0.00	655604.70	615254.40	32°41'26.980"N	103°57'42.856"W	0.00	Est KOP
8200.00†	2.203	271.104	8200.00	0.19	0.00	-0.19	655604.51	615254.40	32°41'26.980"N	103°57'42.858"W	22.03	
8300.00†	24.233	271.104	8296.75	22.92	0.44	-22.91	655581.79	615254.84	32°41'26.985"N	103°57'43.124"W	22.03	
8400.00†	46.263	271.104	8377.91	80.27	1.55	-80.26	655524.45	615255.95	32°41'26.998"N	103°57'43.795"W	22.03	
8500.00†	68.293	271.104	8431.64	163.89	3.16	-163.86	655440.86	615257.56	32°41'27.017"N	103°57'44.773"W	22.03	
8598.54	90.001	271.104	8450.08	260.08	5.01	-260.04	655344.68	615259.41	32°41'27.038"N	103°57'45.899"W	22.03	End of Curve
8600.00†	90.001	271.104	8450.08	261.55	5.04	-261.50	655343.22	615259.44	32°41'27.039"N	103°57'45.916"W	0.00	
8700.00†	90.001	271.104	8450.08	361.55	6.97	-361.48	655243.25	615261.37	32°41'27.061"N	103°57'47.085"W	0.00	



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2H SHL
Area	Acadia Parish	Well	No.2H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No.2H PWB
Facility	Intrepid 3 Fed Com No.2H		

WELLPATH DATA (156 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
8800.00†	90.001	271.104	8450.08	461.55	8.89	-461.46	655143.27	615263.29	32°41'27.084"N	103°57'48.255"W	0.00	
8900.00†	90.001	271.104	8450.08	561.55	10.82	-561.44	655043.30	615265.22	32°41'27.106"N	103°57'49.425"W	0.00	
9000.00†	90.001	271.104	8450.08	661.55	12.75	-661.42	654943.33	615267.14	32°41'27.129"N	103°57'50.595"W	0.00	
9100.00†	90.001	271.104	8450.07	761.55	14.67	-761.41	654843.35	615269.07	32°41'27.151"N	103°57'51.765"W	0.00	
9200.00†	90.001	271.104	8450.07	861.55	16.60	-861.39	654743.38	615271.00	32°41'27.174"N	103°57'52.934"W	0.00	
9300.00†	90.001	271.104	8450.07	961.55	18.53	-961.37	654643.41	615272.92	32°41'27.196"N	103°57'54.104"W	0.00	
9400.00†	90.001	271.104	8450.07	1061.55	20.45	-1061.35	654543.43	615274.85	32°41'27.219"N	103°57'55.274"W	0.00	
9500.00†	90.001	271.104	8450.07	1161.55	22.38	-1161.33	654443.46	615276.78	32°41'27.241"N	103°57'56.444"W	0.00	
9600.00†	90.001	271.104	8450.07	1261.55	24.31	-1261.31	654343.49	615278.70	32°41'27.264"N	103°57'57.614"W	0.00	
9700.00†	90.001	271.104	8450.07	1361.55	26.23	-1361.29	654243.51	615280.63	32°41'27.286"N	103°57'58.783"W	0.00	
9800.00†	90.001	271.104	8450.07	1461.55	28.16	-1461.28	654143.54	615282.56	32°41'27.309"N	103°57'59.953"W	0.00	
9900.00†	90.001	271.104	8450.06	1561.55	30.09	-1561.26	654043.56	615284.48	32°41'27.331"N	103°58'01.123"W	0.00	
10000.00†	90.001	271.104	8450.06	1661.55	32.01	-1661.24	653943.59	615286.41	32°41'27.354"N	103°58'02.293"W	0.00	
10100.00†	90.001	271.104	8450.06	1761.55	33.94	-1761.22	653843.62	615288.34	32°41'27.376"N	103°58'03.462"W	0.00	
10200.00†	90.001	271.104	8450.06	1861.55	35.87	-1861.20	653743.64	615290.26	32°41'27.399"N	103°58'04.632"W	0.00	
10300.00†	90.001	271.104	8450.06	1961.55	37.79	-1961.18	653643.67	615292.19	32°41'27.421"N	103°58'05.802"W	0.00	
10400.00†	90.001	271.104	8450.06	2061.55	39.72	-2061.16	653543.70	615294.12	32°41'27.444"N	103°58'06.972"W	0.00	
10500.00†	90.001	271.104	8450.06	2161.55	41.65	-2161.15	653443.72	615296.04	32°41'27.466"N	103°58'08.142"W	0.00	
10600.00†	90.001	271.104	8450.06	2261.55	43.57	-2261.13	653343.75	615297.97	32°41'27.489"N	103°58'09.311"W	0.00	
10700.00†	90.001	271.104	8450.06	2361.55	45.50	-2361.11	653243.78	615299.90	32°41'27.511"N	103°58'10.481"W	0.00	
10800.00†	90.001	271.104	8450.05	2461.55	47.43	-2461.09	653143.80	615301.82	32°41'27.533"N	103°58'11.651"W	0.00	
10900.00†	90.001	271.104	8450.05	2561.55	49.35	-2561.07	653043.83	615303.75	32°41'27.556"N	103°58'12.821"W	0.00	
11000.00†	90.001	271.104	8450.05	2661.55	51.28	-2661.05	652943.85	615305.67	32°41'27.578"N	103°58'13.991"W	0.00	
11100.00†	90.001	271.104	8450.05	2761.55	53.21	-2761.03	652843.88	615307.60	32°41'27.601"N	103°58'15.160"W	0.00	
11200.00†	90.001	271.104	8450.05	2861.55	55.13	-2861.02	652743.91	615309.53	32°41'27.623"N	103°58'16.330"W	0.00	
11300.00†	90.001	271.104	8450.05	2961.55	57.06	-2961.00	652643.93	615311.45	32°41'27.646"N	103°58'17.500"W	0.00	
11400.00†	90.001	271.104	8450.05	3061.55	58.99	-3060.98	652543.96	615313.38	32°41'27.668"N	103°58'18.670"W	0.00	
11500.00†	90.001	271.104	8450.05	3161.55	60.91	-3160.96	652443.99	615315.31	32°41'27.691"N	103°58'19.839"W	0.00	
11600.00†	90.001	271.104	8450.04	3261.55	62.84	-3260.94	652344.01	615317.23	32°41'27.713"N	103°58'21.009"W	0.00	
11700.00†	90.001	271.104	8450.04	3361.55	64.77	-3360.92	652244.04	615319.16	32°41'27.735"N	103°58'22.179"W	0.00	
11800.00†	90.001	271.104	8450.04	3461.55	66.69	-3460.90	652144.07	615321.09	32°41'27.758"N	103°58'23.349"W	0.00	
11900.00†	90.001	271.104	8450.04	3561.55	68.62	-3560.89	652044.09	615323.01	32°41'27.780"N	103°58'24.519"W	0.00	
12000.00†	90.001	271.104	8450.04	3661.55	70.55	-3660.87	651944.12	615324.94	32°41'27.803"N	103°58'25.688"W	0.00	
12100.00†	90.001	271.104	8450.04	3761.55	72.47	-3760.85	651844.14	615326.87	32°41'27.825"N	103°58'26.858"W	0.00	
12200.00†	90.001	271.104	8450.04	3861.55	74.40	-3860.83	651744.17	615328.79	32°41'27.847"N	103°58'28.028"W	0.00	
12300.00†	90.001	271.104	8450.04	3961.55	76.32	-3960.81	651644.20	615330.72	32°41'27.870"N	103°58'29.198"W	0.00	
12400.00†	90.001	271.104	8450.03	4061.55	78.25	-4060.79	651544.22	615332.65	32°41'27.892"N	103°58'30.368"W	0.00	
12500.00†	90.001	271.104	8450.03	4161.55	80.18	-4160.77	651444.25	615334.57	32°41'27.915"N	103°58'31.537"W	0.00	
12600.00†	90.001	271.104	8450.03	4261.55	82.10	-4260.76	651344.28	615336.50	32°41'27.937"N	103°58'32.707"W	0.00	
12700.00†	90.001	271.104	8450.03	4361.55	84.03	-4360.74	651244.30	615338.43	32°41'27.959"N	103°58'33.877"W	0.00	
12800.00†	90.001	271.104	8450.03	4461.55	85.96	-4460.72	651144.33	615340.35	32°41'27.982"N	103°58'35.047"W	0.00	
12900.00†	90.001	271.104	8450.03	4561.55	87.88	-4560.70	651044.36	615342.28	32°41'28.004"N	103°58'36.216"W	0.00	
13000.00†	90.001	271.104	8450.03	4661.55	89.81	-4660.68	650944.38	615344.20	32°41'28.027"N	103°58'37.386"W	0.00	
13100.00†	90.001	271.104	8450.03	4761.55	91.74	-4760.66	650844.41	615346.13	32°41'28.049"N	103°58'38.556"W	0.00	
13200.00†	90.001	271.104	8450.03	4861.55	93.66	-4860.64	650744.43	615348.06	32°41'28.071"N	103°58'39.726"W	0.00	



Planned Wellpath Report

Prelim 1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2H SHL
Area	Acadia Parish	Well	No.2H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No.2H PWB
Facility	Intrepid 3 Fed Com No.2H		

WELLPATH DATA (156 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
13300.00†	90.001	271.104	8450.02	4961.55	95.59	-4960.63	650644.46	615349.98	32°41'28.094"N	103°58'40.896"W	0.00	
13400.00†	90.001	271.104	8450.02	5061.55	97.52	-5060.61	650544.49	615351.91	32°41'28.116"N	103°58'42.065"W	0.00	
13500.00†	90.001	271.104	8450.02	5161.55	99.44	-5160.59	650444.51	615353.84	32°41'28.139"N	103°58'43.235"W	0.00	
13600.00†	90.001	271.104	8450.02	5261.55	101.37	-5260.57	650344.54	615355.76	32°41'28.161"N	103°58'44.405"W	0.00	
13700.00†	90.001	271.104	8450.02	5361.55	103.30	-5360.55	650244.57	615357.69	32°41'28.183"N	103°58'45.575"W	0.00	
13800.00†	90.001	271.104	8450.02	5461.55	105.22	-5460.53	650144.59	615359.62	32°41'28.206"N	103°58'46.745"W	0.00	
13900.00†	90.001	271.104	8450.02	5561.55	107.15	-5560.51	650044.62	615361.54	32°41'28.228"N	103°58'47.914"W	0.00	
14000.00†	90.001	271.104	8450.02	5661.55	109.08	-5660.50	649944.65	615363.47	32°41'28.250"N	103°58'49.084"W	0.00	
14100.00†	90.001	271.104	8450.01	5761.55	111.00	-5760.48	649844.67	615365.40	32°41'28.273"N	103°58'50.254"W	0.00	
14200.00†	90.001	271.104	8450.01	5861.55	112.93	-5860.46	649744.70	615367.32	32°41'28.295"N	103°58'51.424"W	0.00	
14300.00†	90.001	271.104	8450.01	5961.55	114.86	-5960.44	649644.72	615369.25	32°41'28.317"N	103°58'52.594"W	0.00	
14400.00†	90.001	271.104	8450.01	6061.55	116.78	-6060.42	649544.75	615371.18	32°41'28.340"N	103°58'53.763"W	0.00	
14500.00†	90.001	271.104	8450.01	6161.55	118.71	-6160.40	649444.78	615373.10	32°41'28.362"N	103°58'54.933"W	0.00	
14600.00†	90.001	271.104	8450.01	6261.55	120.64	-6260.38	649344.80	615375.03	32°41'28.384"N	103°58'56.103"W	0.00	
14700.00†	90.001	271.104	8450.01	6361.55	122.56	-6360.37	649244.83	615376.95	32°41'28.407"N	103°58'57.273"W	0.00	
14800.00†	90.001	271.104	8450.01	6461.55	124.49	-6460.35	649144.86	615378.88	32°41'28.429"N	103°58'58.443"W	0.00	
14900.00†	90.001	271.104	8450.00	6561.55	126.42	-6560.33	649044.88	615380.81	32°41'28.451"N	103°58'59.612"W	0.00	
15000.00†	90.001	271.104	8450.00	6661.55	128.34	-6660.31	648944.91	615382.73	32°41'28.474"N	103°59'00.782"W	0.00	
15100.00†	90.001	271.104	8450.00	6761.55	130.27	-6760.29	648844.94	615384.66	32°41'28.496"N	103°59'01.952"W	0.00	
15200.00†	90.001	271.104	8450.00	6861.55	132.20	-6860.27	648744.96	615386.59	32°41'28.518"N	103°59'03.122"W	0.00	
15283.68	90.001	271.104	8450.00†	6945.23	133.81	-6943.94	648661.30	615388.20	32°41'28.537"N	103°59'04.101"W	0.00	No.22H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No.2H PWB Ref Wellpath: Prelim 1									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
9.625in Casing	0.00	3205.00	3205.00	0.00	3205.00	0.00	0.00	0.00	0.00
8.75in Open Hole	3205.00	15283.68	12078.68	3205.00	8450.00	0.00	0.00	133.81	-6943.94



Planned Wellpath Report

Prelim_1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.2H SHL
Area	Acadia Parish	Well	No.2H
Field	(Intrepid) Sec 3, T19S, R30E	Wellbore	No.2H PWB
Facility	Intrepid 3 Fed Com No.2H		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No.2H PBHL	15283.68	8450.00	133.81	6943.94	648661.30	615388.20	32°41'28.537"N	103°59'04.101"W	point

SURVEY PROGRAM Ref Wellbore: No.2H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	15283.68	NaviTrak (Standard)		No.2H PWB



Cimarex Energy Co.

Location Acadia Parish
Field (Intrepid) Sec 3, T19S, R30E
Facility Intrepid 3 Fed Com No 2H

Slot No 2H SHL
Well No 2H
Wellbore No 2H PWR



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	271.104	0.00	0.00	0.00	0.00	0.00
Est KOP	8190.00	0.000	271.104	8190.00	0.00	0.00	0.00	0.00
End of Curve	8598.54	90.001	271.104	8450.08	5.01	-260.04	22.03	260.08
No 22H PBHL	15283.68	90.001	271.104	8450.00	133.81	-6943.94	0.00	6945.23

Plot reference wellpath is Prelim_1

True vertical depths are referenced to Rig on No 2H PBHL (RT)

Grid System NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet

Measured depths are referenced to Rig on No 2H PBHL (RT)

North Reference Grid north

Rig on No 2H PBHL (RT) to Mean Sea Level 3412 feet

Scale True distance

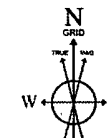
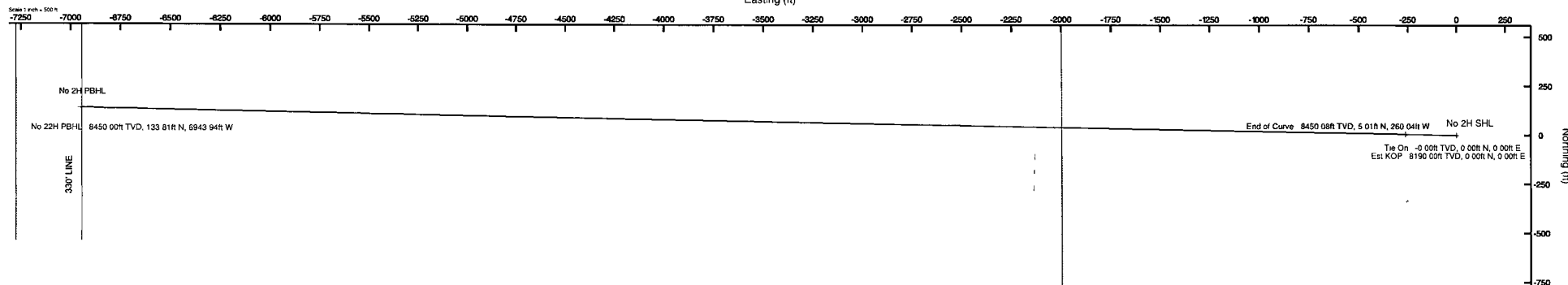
Mean Sea Level to Mud line (Facility Intrepid 3 Fed Com No 2H) -3412 feet

Depths are in feet

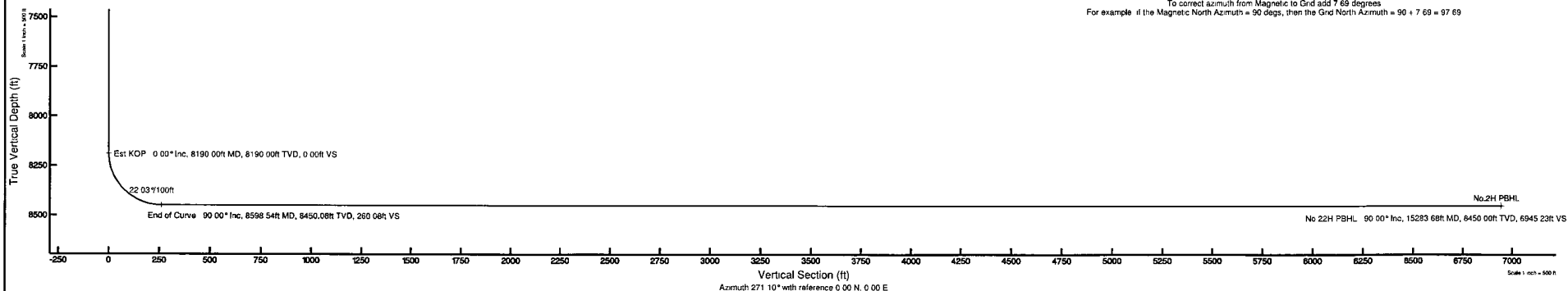
Coordinates are in feet referenced to Slot

Created by gomeoscr on 12/30/2010

Easting (ft)



86GM (1945.0 to 2011.0) Dip 80.58° Field 48997 nT
Magnetic North is 7.89 degrees East of True North (at 12/30/2010)
Grid North is 0.20 degrees East of True North
To correct azimuth from True to Grid subtract 0.20 degrees
To correct azimuth from Magnetic to Grid add 7.89 degrees
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.89 = 97.89



SR & A

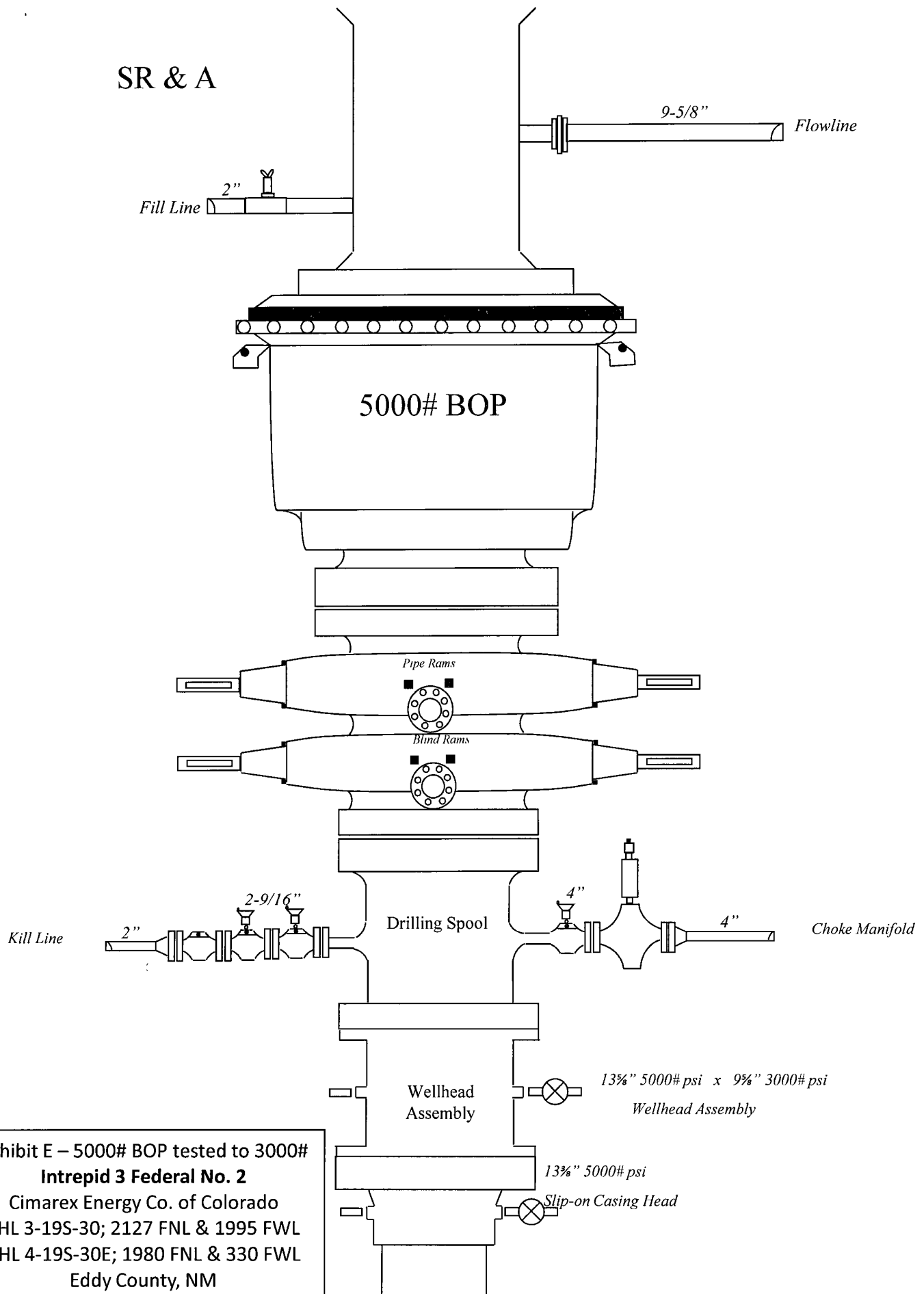


Exhibit E – 5000# BOP tested to 3000#
Intrepid 3 Federal No. 2
Cimarex Energy Co. of Colorado
SHL 3-19S-30; 2127 FNL & 1995 FWL
BHL 4-19S-30E; 1980 FNL & 330 FWL
Eddy County, NM

Drilling Operations Choke Manifold 5M Service tested to 3M

Exhibit E-1 – Choke Manifold Diagram

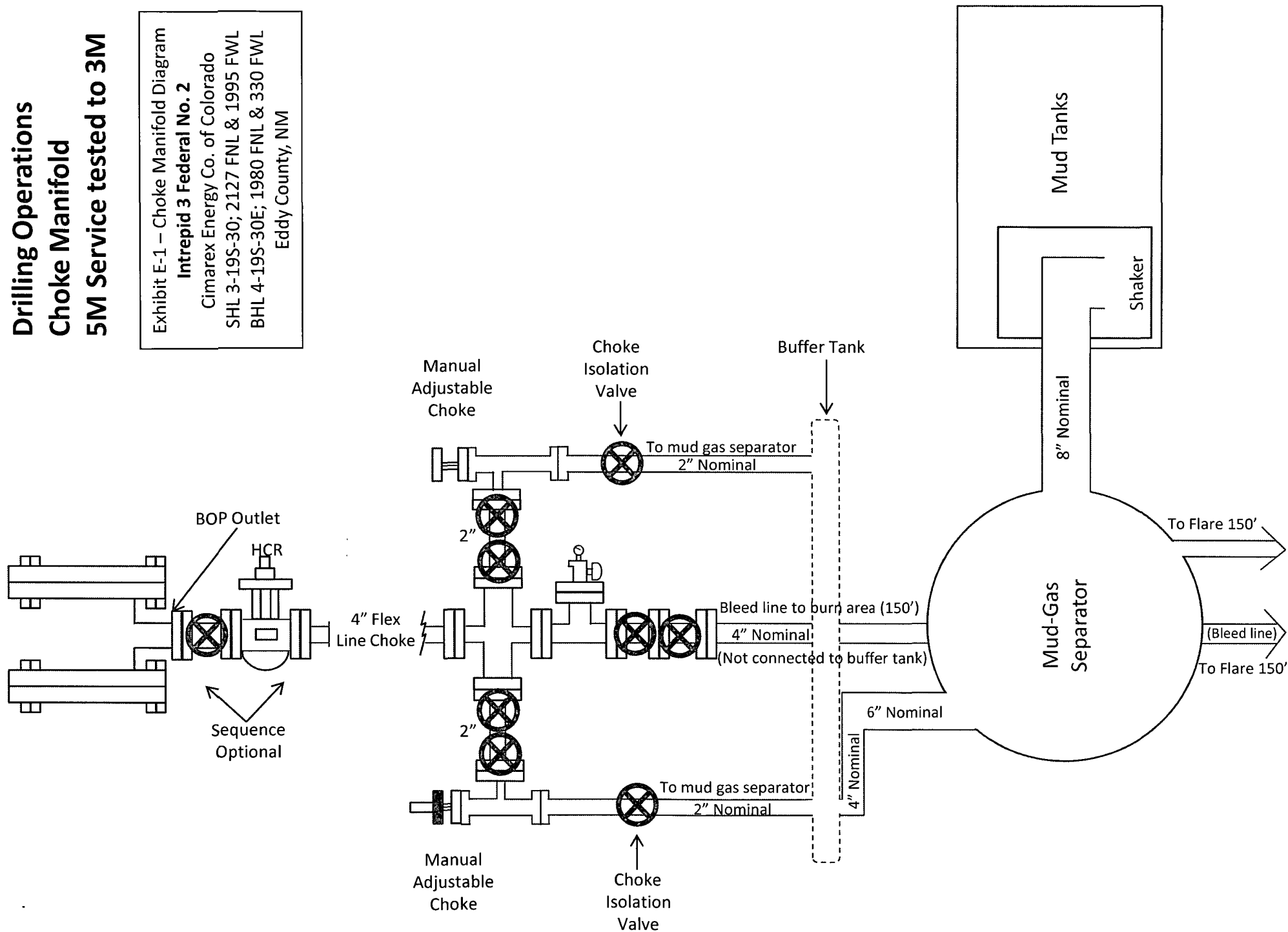
Intrepid 3 Federal No. 2

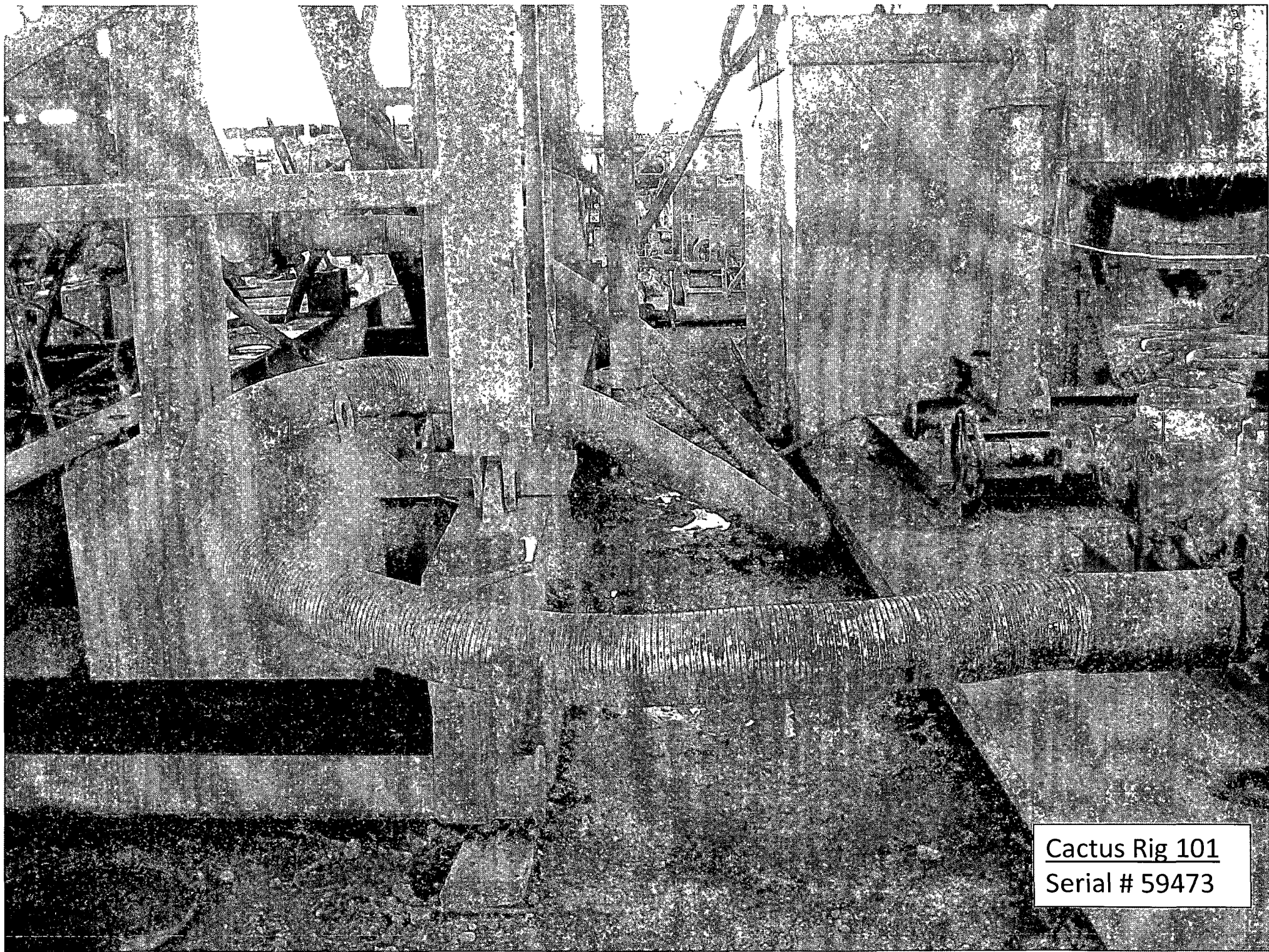
Cimarex Energy Co. of Colorado

SHL 3-19S-30; 2127 FNL & 1995 FWL

BHL 4-19S-30E; 1980 FNL & 330 FWL

Eddy County, NM





Cactus Rig 101
Serial # 59473

M I D W E S T
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: CACTUS		P.O. Number: Rig#101 Asset#M5358	
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 35'	
I.D. 4" INCHES		O.D. 8" INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI		BURST PRESSURE PSI
COUPLINGS			
Type of End Fitting 4 1/16 10K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
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: s/n#59473 Asset#M5358 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 5/19/2010	Tested By: BOBBY FINK		Approved: MENDI JACKSON



Midwest Hose
& Specialty, Inc.

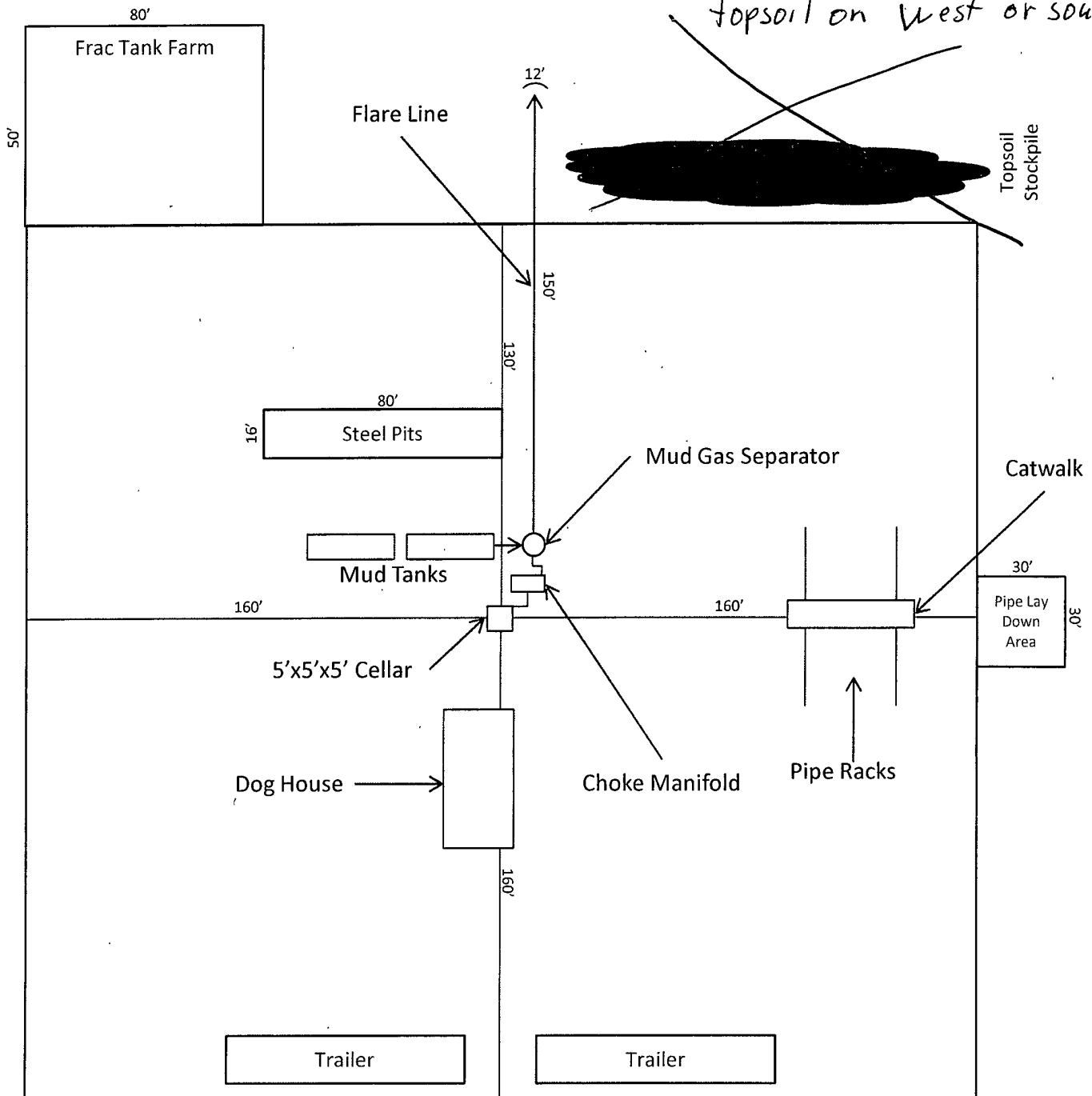
Specification Sheet Choke & Kill Hose

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)

Cactus 101

See COA's stock pile
topsoil on west or south si.



1"=50'



Exhibit D – Rig Diagram
Intrepid 3 Federal No. 2
 Cimarex Energy Co. of Colorado
 SHL 3-19S-30; 2127 FNL & 1995 FWL
 BHL 4-19S-30E; 1980 FNL & 330 FWL
 Eddy County, NM

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator CIMAREX ENERGY CO OF COLORADO OGRID # 162683
 Well Name & # INTREPID 3 FED # 2 H Surface Type (F) (S) (P)
 Location: UL , Sect , Township s, RNG e, Sub-surface Type (F) (S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID X, BONDING FED, PROP CODE X, WELL # X, SIGNATURE X

2. Inactive Well list as of: 2/6/4 # wells 1202 # Inactive wells 9

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 2/6/4

a. District Denial because operator needs addition bonding:

No Letter required X; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required X; Sent Letter to Operator , To Santa Fe

C. C102 YES X, NO , Signature X

1. Pool LEO-AONE SPRING, SOUTH Code 37820

a. Dedicated acreage 200, What Units 3: E 4: EFGH

b. SUR. Location Standard ; Non-Standard Location X

c. Well shares acres: Yes , No X, # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No X

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X, No

a. Dedicated acreage 200, What Units 3: E 4: EFGH

b. Bottomhole Location Standard X, Non-Standard Bottomhole

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No X

D. Blowout Preventer Yes , No

E. H2S Yes X, No

F. C144 Pit Registration Yes , No , need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes X, No , NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date / /

API #30-0 15- 39187

8. Reviewers

condition of approval requires NSL