

475-11-237

OCD Artesia

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-12568-A
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 <i>162683</i>		7. If Unit or CA Agreement, Name and No.
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		8. Lease Name and Well No. <i>217917</i> Bondurant Federal No. <i>11124</i>
3b. Phone No. (include area code) 432-571-7800		9. API Well No. <i>025-40182</i>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FNL & 1916 FEL At proposed prod. Zone 330 FSL & 1980 FEL <i>Horizontal Bone Spring test</i>		10. Field and Pool, or Exploratory Tonto; Bone Spring, W <i>59477</i>
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area 1-19S-32E
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 440	12. County or Parish <i>Eddy Co</i>
17. Spacing Unit dedicated to this well W2E2 160 acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1384	13. State NM
19. Proposed Depth Pilot Hole 9900 MD 13249 TVD 8780	20. BLM/BIA Bond No. on File NM-2575	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3701' GR	22. Approximate date work will start* 04.15.11	23. Estimated duration 25-30 days

RECEIVED
MAY 17 2011
NMOCD ARTESIA

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 <i>Zeno Farris</i>	Name (Printed/Typed) Zeno Farris	Date 01.25.11
Title Manager Operations Administration		
Approved By (Signature) <i>/s/ Don Peterson</i>	Name (Printed/Typed)	Date MAY 10 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.

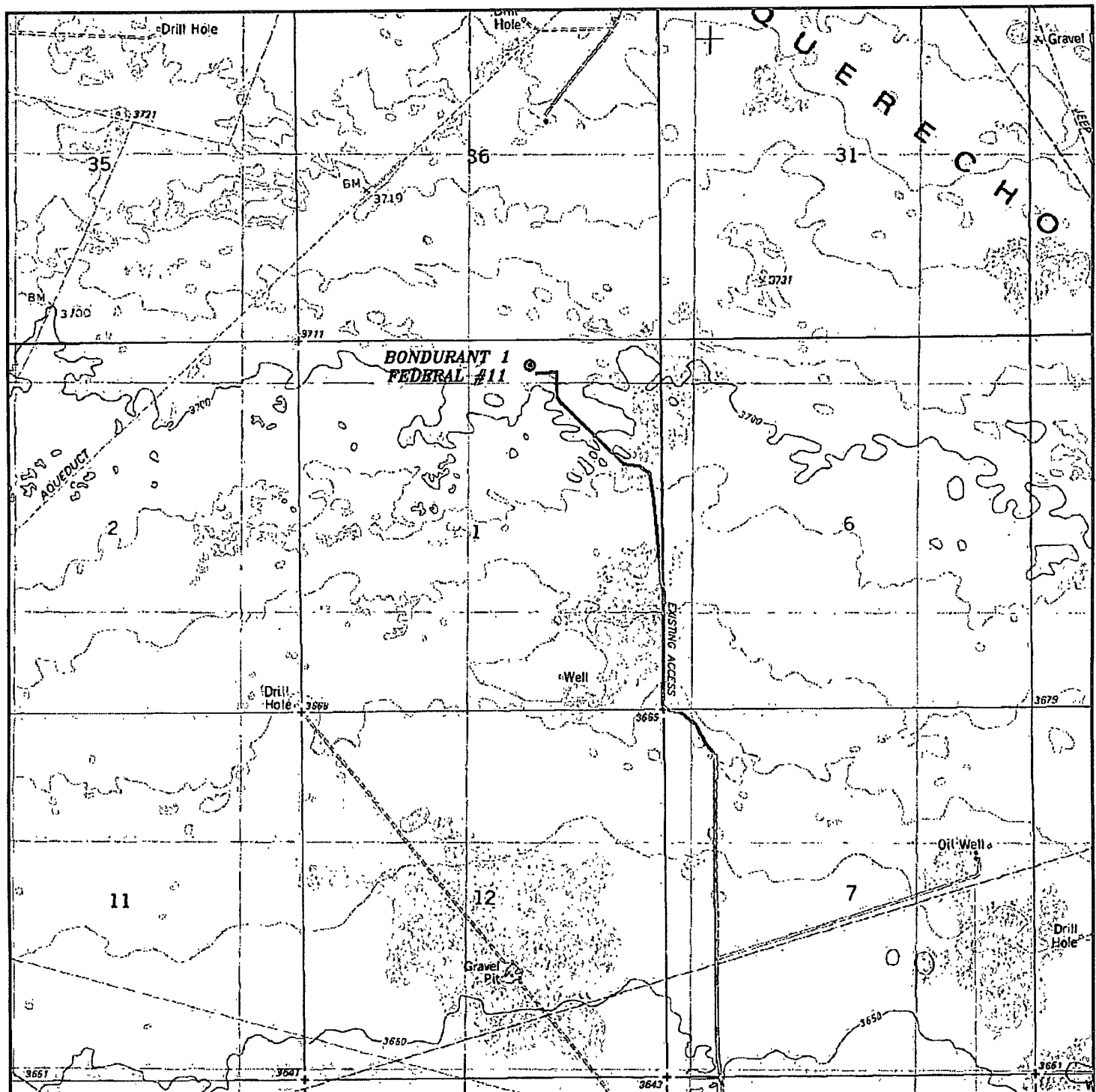
* (Instructions on page 2)

K2 07/01/11

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached



BONDURANT 1 FEDERAL #11
 Located 330' FNL and 1916' FEL
 Section 1, Township 19 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.

☐ Battery

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basin-surveys.com

W.O. Number: BJN 23798

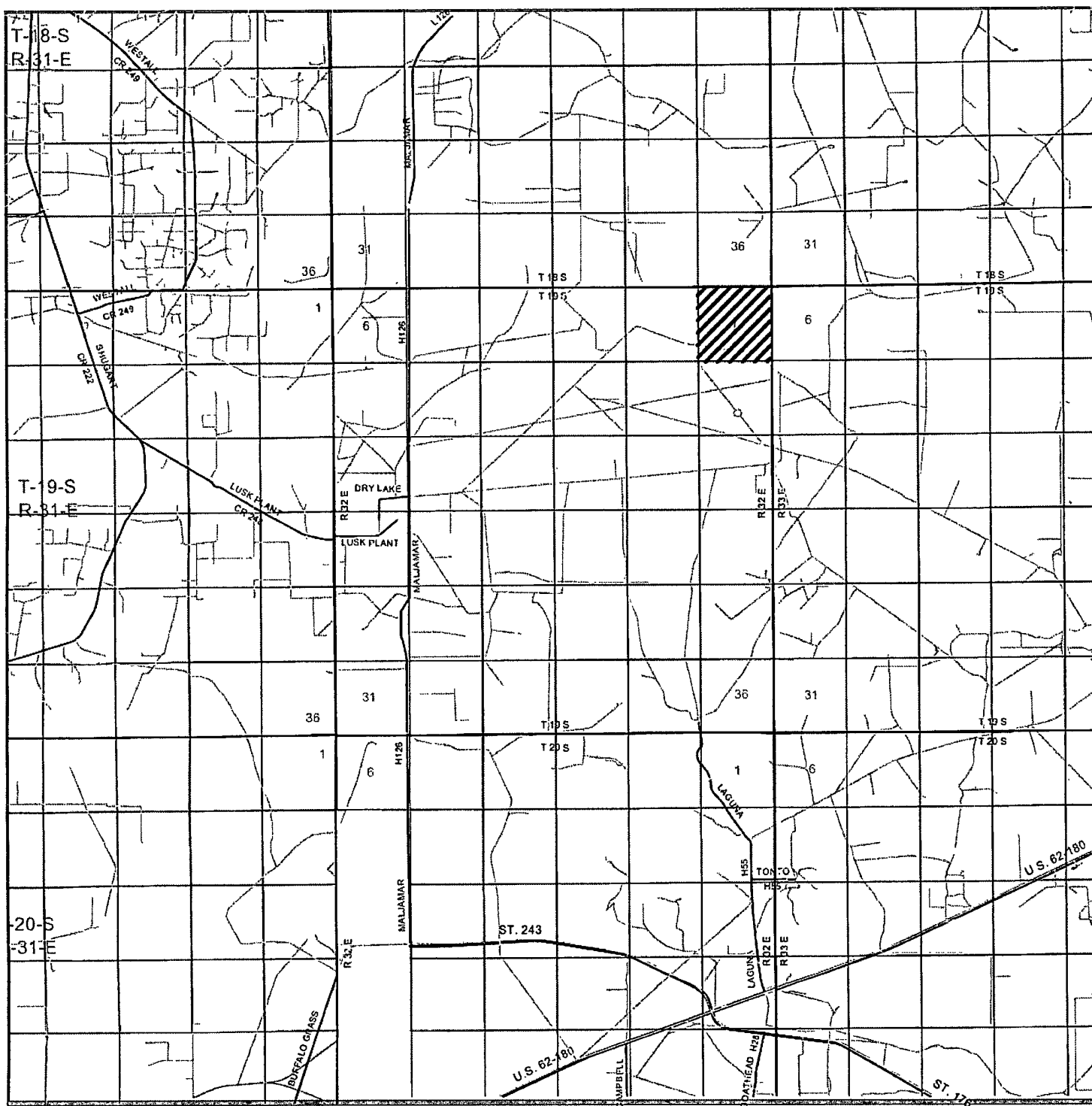
Survey Date: 12-20-2010

Scale: 1" = 2000'

Date: 12-22-2010

CIMAREX
ENERGY CO.
OF COLORADO

Exhibit C



BONDURANT 1 FEDERAL #11
 Located 330' FNL and 1916' FEL
 Section 1, Township 19 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.

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 basin-surveys.com

W.O. Number: BJN 23798

Survey Date: 12-20-2010

Scale: 1" = 2 Miles

Date: 12-22-2010

CIMAREX
ENERGY CO.
OF COLORADO

Exhibit B

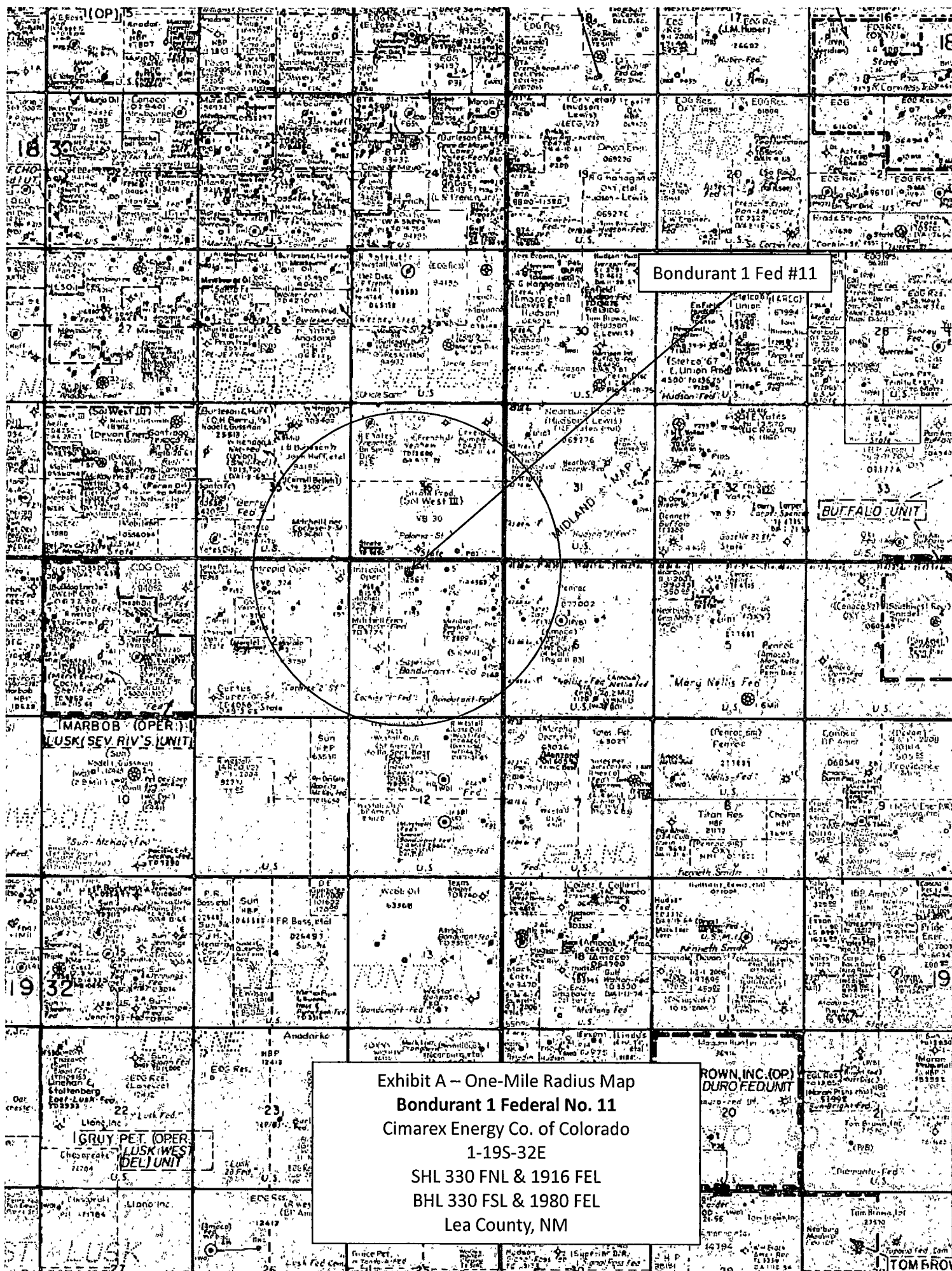
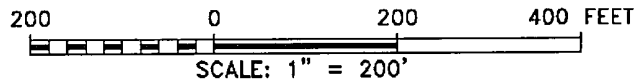
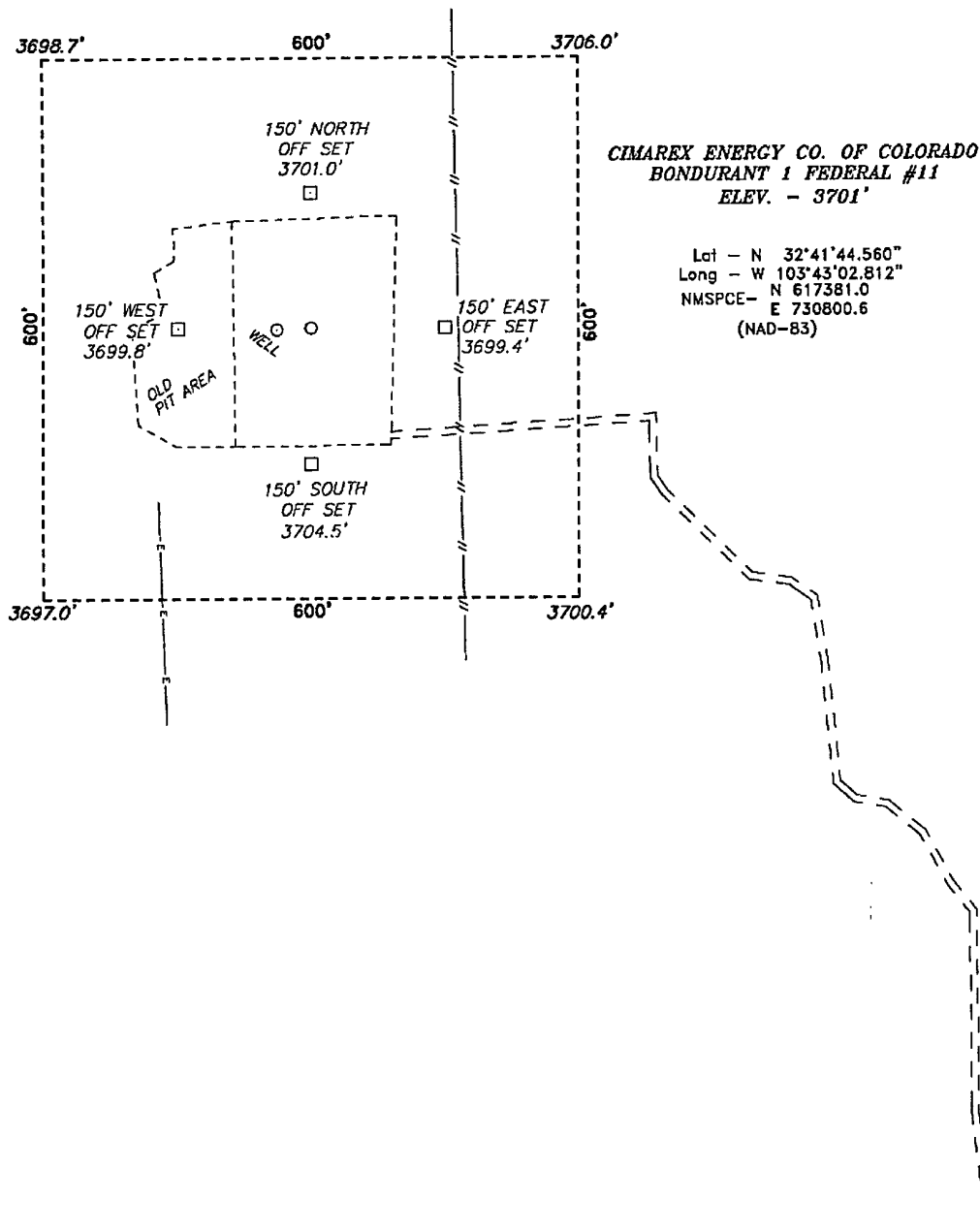


Exhibit A – One-Mile Radius Map
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
1-19S-32E
SHL 330 FNL & 1916 FEL
BHL 330 FSL & 1980 FEL
Lea County, NM

SECTION 1, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM MALJAMAR AND DRY LAKE ROAD GO 5.3 MILES
EAST ON LEASE ROAD, THEN NORTH 2 MILES, THEN
NORTHWEST 0.4 MILES TO PROPOSED LOCATION.

BASIN SURVEYS P.O. BOX 1786--HOBBS, NEW MEXICO

W.O. Number: 23798 Drawn By: B. NIXON

Date: 12-22-2010 Disk: BJN 23798

CIMAREX ENERGY CO. OF COLORADO

REF: BONDURANT 1 FEDERAL #11 / WELL PAD TOPO

THE BONDURANT 1 FEDERAL #11 LOCATED 330'
FROM THE NORTH LINE AND 1916' FROM THE EAST LINE OF
SECTION 1, TOWNSHIP 19 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 12-20-2010 Sheet 1 of 1 Sheets

Exhibit C-1

Application to Drill
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea 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 & 1916 FEL
 BHL 330 FSL & 1980 FEL
- 2 Elevation above sea level: 3701' 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: Pilot Hole 9900 MD 13249 TVD 8780
- 6 Estimated tops of geological markers:
Rustler 1410'
T. Salt 1530'
B. Salt 2865'
Tansill 2865'
Yates 3150'
Delaware 5210'
Bone Spring 7450'
- 7 Possible mineral bearing formation:
Bone Spring Oil

8 Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 1450' 1490'	8.4 - 8.6	28	NC	FW
1450'	to 4800' 5460'	10.0	30-32	NC	Brine water
4800'	to 13249'	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

After drilling and setting surface casing, drill to vertical TD 9900' and log. Set 590 sks HalCem -H 0.5% CFR-3 0.1% HR-60116.5 ppg yield 1.06 0% Excess cement plug from 8404-9900. Drill through cmt to KOP @ 8464 and kick off 8¾" lateral. Drill to TD @ 13249 MD, 8780 TVD. Set 5½" 17# P110. LTC from 0-8164 (100' above KOP), BTC from 8164-8911 (EOC), and LTC from 8911-13249 (TD). Cement casing.

9 Casing & Cementing Program:

See
COA

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface	17½"	0' to 1440 1450'	New 13¾"	54.5#	STC	J-55
Intermediate	12¼"	0' to 5460 4800'	New 9¾"	40#	LTC	N-80
Production	8¾"	0' to 13249'	New 5½"	17#	LTC	P-110

10 Cementing:

Surface

Lead: 992 sx Halcem C + 4% Bentomite + 2% CaCl, 13.5 ppg, 1.75 yield 100% Excess

Tail: 235 sx Halcem C + 2% CaCl, 14.2ppg, 1.34 yield, 100% Excess

TOC Surface Centralizers per Onshore order 2.III.B.1.f

Intermediate

Lead: 1925 sx EconoCem + 5% salt + 5 lbm gilsonite, 14.6 ppg, 1.54 yield, 70% Excess

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

TOC Surface

Production

Lead: 540 sx EconoCem - H + 0.2 % HR-601 2.44, 11.9 ppg, 2.44 yield. 50% Excess

Tail: 1355 sx Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601, 14.5 ppg, 1.22 yield, 25% Excess

TOC 5950' 5260' Centralizers every 3rd joint in lateral to provide adequate cement every 100' unless lateral doglegs require greater spacing between centralizers.

According to the State Engineer, depth to groundwater is approximately 300'. Fresh water zones will be protected by setting 13¾" casing at 1450 and cementing to surface. Hydrocarbon zones will be protected by setting 9¾" casing at 4800 and cementing to surface, and by setting 5½" casing to 13249 and cementing to 4600.

<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 13¾" 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. Mud gas separator will be available while drilling in H2S areas

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 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.

Application to Drill
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea County, NM

12 Testing, Logging and Coring Program: See COA

- A. Mud-logging program: 2 man unit from 5250' 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 potential as **an oil well.**



Cimarex Energy Co.

Location Lea County, NM
Field (Bondurant) Sec 1, T19S, R32E
Facility Bondurant 1 Fed No 11H

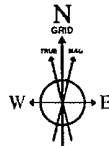
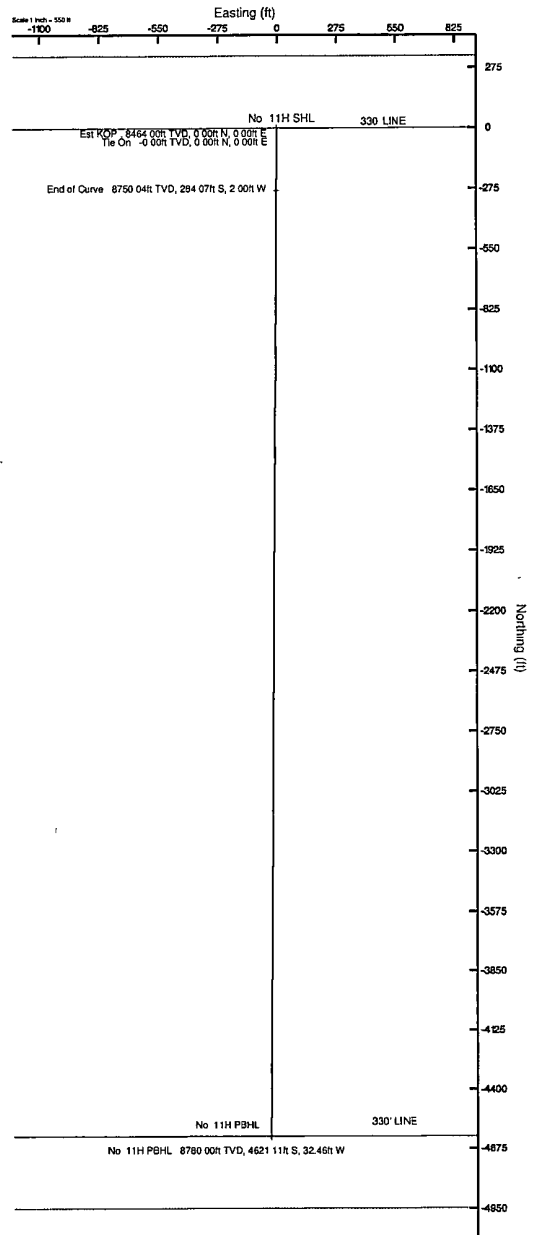
Slot No 11H SHL
Well No 11H
Wellbore No 11H PWB



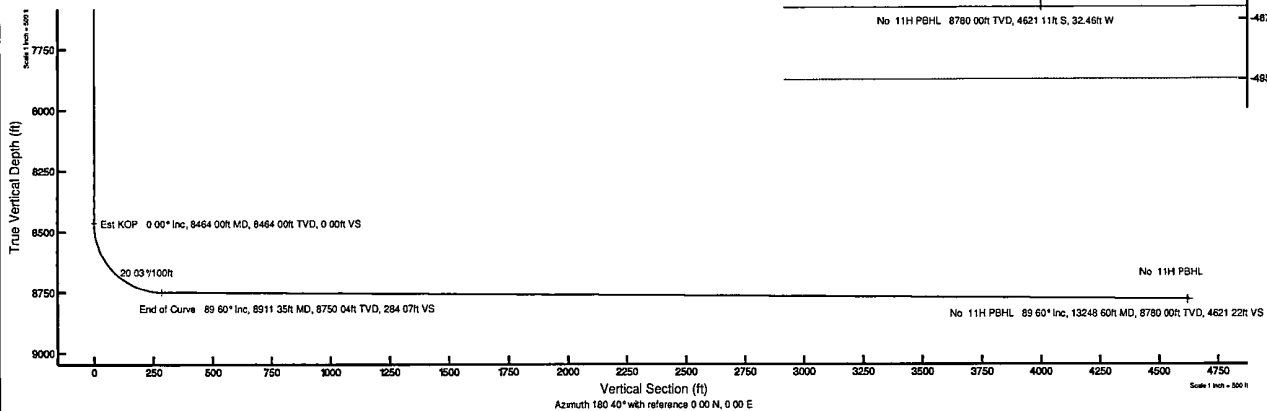
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	180.402	0.00	0.00	0.00	0.00	0.00
Est KOP	8464.00	0.000	180.402	8464.00	0.00	0.00	0.00	0.00
End of Curve	8911.35	89.804	180.402	8750.04	-284.07	-2.00	20.03	284.07
No 11H PBHL	13248.60	89.604	180.402	8780.00	-4621.11	-32.46	0.00	4621.22

Plot reference wellpath is Prelim 2				Grd System NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet			
True vertical depths are referenced to Rig on No 11H SHL (RT)				North Reference Grd north			
Measured depths are referenced to Rig on No 11H SHL (RT)				Scale True distance			
Rig on No 11H SHL (RT) to Mean Sea Level -3701 feet				Depths are in feet			
Mean Sea Level to Mud line (Facility Bondurant 1 Fed No 11H) -3701 feet				Created by gomeoscr on 1/24/2011			
Coordinates are in feet referenced to Slot							



BGGM (1945 0 to 2012 0) Dip: 60.62° Field: 48891.2 nT
Magnetic North is 7.80 degrees East of True North (at 1/11/2011)
Grid North is 0.33 degrees East of True North
To correct azimuth from True to Grid subtract 0.33 degrees
To correct azimuth from Magnetic to Grid add 7.47 degrees
For example: If the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.47 = 97.47





Planned Wellpath Report

Prelim_2

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11H SHL
Area	Lea County, NM	Well	No. 11H
Field	(Bondurant) Sec 1, T19S, R32E	Wellbore	No. 11H PWB
Facility	Bondurant 1 Fed No.11H		

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	0.99995	Report Generated	1/24/2011 at 2:57:35 PM
Convergence at slot	0.33° East	Database/Source file	WA Midland/No._11H_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	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W
Facility Reference Pt			730800.60	617381.00	32°41'44.560"N	103°43'02.812"W
Field Reference Pt			730800.60	617381.00	32°41'44.560"N	103°43'02.812"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 11H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 11H SHL (RT) to Mean Sea Level	3701.00ft
Vertical Reference Pt	Rig on No. 11H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 11H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	180.40°



Planned Wellpath Report

Prelim_2
Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11H SHL
Area	Lea County, NM	Well	No. 11H
Field	(Bondurant) Sec 1, T19S, R32E	Wellbore	No. 11H PWB
Facility	Bondurant 1 Fed No.11H		

WELLPATH DATA (136 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	180.402	0.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	Tie On
100.00†	0.000	180.402	100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
200.00†	0.000	180.402	200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
300.00†	0.000	180.402	300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
400.00†	0.000	180.402	400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
500.00†	0.000	180.402	500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
600.00†	0.000	180.402	600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
700.00†	0.000	180.402	700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
800.00†	0.000	180.402	800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
900.00†	0.000	180.402	900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1000.00†	0.000	180.402	1000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1100.00†	0.000	180.402	1100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1200.00†	0.000	180.402	1200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1300.00†	0.000	180.402	1300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1400.00†	0.000	180.402	1400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1500.00†	0.000	180.402	1500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1600.00†	0.000	180.402	1600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1700.00†	0.000	180.402	1700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1800.00†	0.000	180.402	1800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
1900.00†	0.000	180.402	1900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2000.00†	0.000	180.402	2000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2100.00†	0.000	180.402	2100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2200.00†	0.000	180.402	2200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2300.00†	0.000	180.402	2300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2400.00†	0.000	180.402	2400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2500.00†	0.000	180.402	2500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2600.00†	0.000	180.402	2600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2700.00†	0.000	180.402	2700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2800.00†	0.000	180.402	2800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
2900.00†	0.000	180.402	2900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3000.00†	0.000	180.402	3000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3100.00†	0.000	180.402	3100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3200.00†	0.000	180.402	3200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3300.00†	0.000	180.402	3300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3400.00†	0.000	180.402	3400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3500.00†	0.000	180.402	3500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3600.00†	0.000	180.402	3600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3700.00†	0.000	180.402	3700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3800.00†	0.000	180.402	3800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
3900.00†	0.000	180.402	3900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4000.00†	0.000	180.402	4000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4100.00†	0.000	180.402	4100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4200.00†	0.000	180.402	4200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4300.00†	0.000	180.402	4300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4400.00†	0.000	180.402	4400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	



Planned Wellpath Report

Prelim_2

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11H SHL
Area	Lea County, NM	Well	No. 11H
Field	(Bondurant) Sec 1, T19S, R32E	Wellbore	No. 11H PWB
Facility	Bondurant 1 Fed No.11H		

WELLPATH DATA (136 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	180.402	4500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4600.00†	0.000	180.402	4600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4700.00†	0.000	180.402	4700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4800.00†	0.000	180.402	4800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
4900.00†	0.000	180.402	4900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5000.00†	0.000	180.402	5000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5100.00†	0.000	180.402	5100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5200.00†	0.000	180.402	5200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5300.00†	0.000	180.402	5300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5400.00†	0.000	180.402	5400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5500.00†	0.000	180.402	5500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5600.00†	0.000	180.402	5600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5700.00†	0.000	180.402	5700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5800.00†	0.000	180.402	5800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
5900.00†	0.000	180.402	5900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6000.00†	0.000	180.402	6000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6100.00†	0.000	180.402	6100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6200.00†	0.000	180.402	6200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6300.00†	0.000	180.402	6300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6400.00†	0.000	180.402	6400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6500.00†	0.000	180.402	6500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6600.00†	0.000	180.402	6600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6700.00†	0.000	180.402	6700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6800.00†	0.000	180.402	6800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
6900.00†	0.000	180.402	6900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7000.00†	0.000	180.402	7000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7100.00†	0.000	180.402	7100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7200.00†	0.000	180.402	7200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7300.00†	0.000	180.402	7300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7400.00†	0.000	180.402	7400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7500.00†	0.000	180.402	7500.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7600.00†	0.000	180.402	7600.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7700.00†	0.000	180.402	7700.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7800.00†	0.000	180.402	7800.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
7900.00†	0.000	180.402	7900.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8000.00†	0.000	180.402	8000.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8100.00†	0.000	180.402	8100.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8200.00†	0.000	180.402	8200.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8300.00†	0.000	180.402	8300.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8400.00†	0.000	180.402	8400.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	
8464.00	0.000	180.402	8464.00	0.00	0.00	0.00	730800.60	617381.00	32°41'44.560"N	103°43'02.812"W	0.00	Est KOP
8500.00†	7.211	180.402	8499.91	2.26	-2.26	-0.02	730800.58	617378.74	32°41'44.537"N	103°43'02.812"W	20.03	
8600.00†	27.241	180.402	8594.93	31.73	-31.72	-0.22	730800.38	617349.28	32°41'44.246"N	103°43'02.816"W	20.03	
8700.00†	47.271	180.402	8674.12	91.96	-91.95	-0.65	730799.95	617289.05	32°41'43.650"N	103°43'02.825"W	20.03	
8800.00†	67.301	180.402	8727.89	175.67	-175.66	-1.23	730799.37	617205.35	32°41'42.822"N	103°43'02.838"W	20.03	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11H SHL
Area	Lea County, NM	Well	No. 11H
Field	(Bondurant) Sec 1, T19S, R32E	Wellbore	No. 11H PWB
Facility	Bondurant 1 Fed No.11H		

WELLPATH DATA (136 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
8900.00†	87.331	180.402	8749.74	272.73	-272.72	-1.92	730798.68	617108.29	32°41'41.861"N	103°43'02.853"W	20.03	
8911.35	89.604	180.402	8750.04	284.07	-284.07	-2.00	730798.60	617096.95	32°41'41.749"N	103°43'02.854"W	20.03	End of Curve
9000.00†	89.604	180.402	8750.66	372.72	-372.71	-2.62	730797.98	617008.31	32°41'40.872"N	103°43'02.868"W	0.00	
9100.00†	89.604	180.402	8751.35	472.72	-472.71	-3.32	730797.28	616908.32	32°41'39.883"N	103°43'02.883"W	0.00	
9200.00†	89.604	180.402	8752.04	572.72	-572.70	-4.02	730796.58	616808.33	32°41'38.893"N	103°43'02.898"W	0.00	
9300.00†	89.604	180.402	8752.73	672.71	-672.70	-4.73	730795.87	616708.34	32°41'37.904"N	103°43'02.913"W	0.00	
9400.00†	89.604	180.402	8753.42	772.71	-772.69	-5.43	730795.17	616608.35	32°41'36.915"N	103°43'02.928"W	0.00	
9500.00†	89.604	180.402	8754.11	872.71	-872.69	-6.13	730794.47	616508.36	32°41'35.925"N	103°43'02.943"W	0.00	
9600.00†	89.604	180.402	8754.80	972.71	-972.68	-6.83	730793.77	616408.37	32°41'34.936"N	103°43'02.958"W	0.00	
9700.00†	89.604	180.402	8755.49	1072.71	-1072.68	-7.54	730793.07	616308.38	32°41'33.947"N	103°43'02.973"W	0.00	
9800.00†	89.604	180.402	8756.18	1172.70	-1172.67	-8.24	730792.36	616208.39	32°41'32.957"N	103°43'02.988"W	0.00	
9900.00†	89.604	180.402	8756.87	1272.70	-1272.67	-8.94	730791.66	616108.40	32°41'31.968"N	103°43'03.003"W	0.00	
10000.00†	89.604	180.402	8757.56	1372.70	-1372.66	-9.64	730790.96	616008.41	32°41'30.979"N	103°43'03.018"W	0.00	
10100.00†	89.604	180.402	8758.25	1472.70	-1472.66	-10.34	730790.26	615908.42	32°41'29.989"N	103°43'03.033"W	0.00	
10200.00†	89.604	180.402	8758.94	1572.69	-1572.65	-11.05	730789.55	615808.43	32°41'29.000"N	103°43'03.048"W	0.00	
10300.00†	89.604	180.402	8759.63	1672.69	-1672.65	-11.75	730788.85	615708.44	32°41'28.011"N	103°43'03.063"W	0.00	
10400.00†	89.604	180.402	8760.32	1772.69	-1772.64	-12.45	730788.15	615608.45	32°41'27.021"N	103°43'03.078"W	0.00	
10500.00†	89.604	180.402	8761.02	1872.69	-1872.64	-13.15	730787.45	615508.46	32°41'26.032"N	103°43'03.093"W	0.00	
10600.00†	89.604	180.402	8761.71	1972.68	-1972.63	-13.86	730786.74	615408.47	32°41'25.043"N	103°43'03.108"W	0.00	
10700.00†	89.604	180.402	8762.40	2072.68	-2072.63	-14.56	730786.04	615308.48	32°41'24.053"N	103°43'03.123"W	0.00	
10800.00†	89.604	180.402	8763.09	2172.68	-2172.63	-15.26	730785.34	615208.49	32°41'23.064"N	103°43'03.138"W	0.00	
10900.00†	89.604	180.402	8763.78	2272.68	-2272.62	-15.96	730784.64	615108.50	32°41'22.075"N	103°43'03.153"W	0.00	
11000.00†	89.604	180.402	8764.47	2372.67	-2372.62	-16.67	730783.93	615008.51	32°41'21.085"N	103°43'03.168"W	0.00	
11100.00†	89.604	180.402	8765.16	2472.67	-2472.61	-17.37	730783.23	614908.52	32°41'20.096"N	103°43'03.183"W	0.00	
11200.00†	89.604	180.402	8765.85	2572.67	-2572.61	-18.07	730782.53	614808.53	32°41'19.107"N	103°43'03.198"W	0.00	
11300.00†	89.604	180.402	8766.54	2672.67	-2672.60	-18.77	730781.83	614708.54	32°41'18.117"N	103°43'03.213"W	0.00	
11400.00†	89.604	180.402	8767.23	2772.66	-2772.60	-19.48	730781.12	614608.55	32°41'17.128"N	103°43'03.228"W	0.00	
11500.00†	89.604	180.402	8767.92	2872.66	-2872.59	-20.18	730780.42	614508.56	32°41'16.139"N	103°43'03.243"W	0.00	
11600.00†	89.604	180.402	8768.61	2972.66	-2972.59	-20.88	730779.72	614408.57	32°41'15.149"N	103°43'03.258"W	0.00	
11700.00†	89.604	180.402	8769.30	3072.66	-3072.58	-21.58	730779.02	614308.58	32°41'14.160"N	103°43'03.273"W	0.00	
11800.00†	89.604	180.402	8769.99	3172.65	-3172.58	-22.29	730778.31	614208.59	32°41'13.171"N	103°43'03.288"W	0.00	
11900.00†	89.604	180.402	8770.69	3272.65	-3272.57	-22.99	730777.61	614108.60	32°41'12.181"N	103°43'03.303"W	0.00	
12000.00†	89.604	180.402	8771.38	3372.65	-3372.57	-23.69	730776.91	614008.61	32°41'11.192"N	103°43'03.318"W	0.00	
12100.00†	89.604	180.402	8772.07	3472.65	-3472.56	-24.39	730776.21	613908.62	32°41'10.203"N	103°43'03.333"W	0.00	
12200.00†	89.604	180.402	8772.76	3572.65	-3572.56	-25.10	730775.51	613808.63	32°41'09.213"N	103°43'03.348"W	0.00	
12300.00†	89.604	180.402	8773.45	3672.64	-3672.55	-25.80	730774.80	613708.64	32°41'08.224"N	103°43'03.363"W	0.00	
12400.00†	89.604	180.402	8774.14	3772.64	-3772.55	-26.50	730774.10	613608.65	32°41'07.235"N	103°43'03.378"W	0.00	
12500.00†	89.604	180.402	8774.83	3872.64	-3872.54	-27.20	730773.40	613508.66	32°41'06.245"N	103°43'03.393"W	0.00	
12600.00†	89.604	180.402	8775.52	3972.64	-3972.54	-27.91	730772.70	613408.67	32°41'05.256"N	103°43'03.408"W	0.00	
12700.00†	89.604	180.402	8776.21	4072.63	-4072.53	-28.61	730771.99	613308.68	32°41'04.267"N	103°43'03.423"W	0.00	
12800.00†	89.604	180.402	8776.90	4172.63	-4172.53	-29.31	730771.29	613208.69	32°41'03.277"N	103°43'03.438"W	0.00	
12900.00†	89.604	180.402	8777.59	4272.63	-4272.52	-30.01	730770.59	613108.70	32°41'02.288"N	103°43'03.453"W	0.00	
13000.00†	89.604	180.402	8778.28	4372.63	-4372.52	-30.72	730769.89	613008.71	32°41'01.299"N	103°43'03.468"W	0.00	
13100.00†	89.604	180.402	8778.97	4472.62	-4472.51	-31.42	730769.18	612908.72	32°41'00.309"N	103°43'03.483"W	0.00	
13200.00†	89.604	180.402	8779.66	4572.62	-4572.51	-32.12	730768.48	612808.73	32°40'59.320"N	103°43'03.498"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 11H SHL
Area	Lea County, NM	Well	No. 11H
Field	(Bondurant) Sec 1, T19S, R32E	Wellbore	No. 11H PWB
Facility	Bondurant 1 Fed No.11H		

WELLPATH DATA (136 stations)

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
13248.60	89.604	180.402	8780.00	4621.22	-4621.11	-32.46	730768.14	612760.13	32°40'58.839"N	103°43'03.505"W	0.00	No. 11H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 11H PWB Ref Wellpath: Prelim_2

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	5200.00	5200.00	0.00	5200.00	0.00	0.00	0.00	0.00
8.75in Open Hole	5200.00	13248.60	8048.60	5200.00	8780.00	0.00	0.00	-4621.11	-32.46

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 11H PBHL	13248.60	8780.00	-4621.11	-32.46	730768.14	612760.13	32°40'58.839"N	103°43'03.505"W	point
	1st Bone Spring								

SURVEY PROGRAM Ref Wellbore: No. 11H PWB Ref Wellpath: Prelim_2

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	13248.60	NaviTrak (Standard)		No. 11H PWB

SR & A

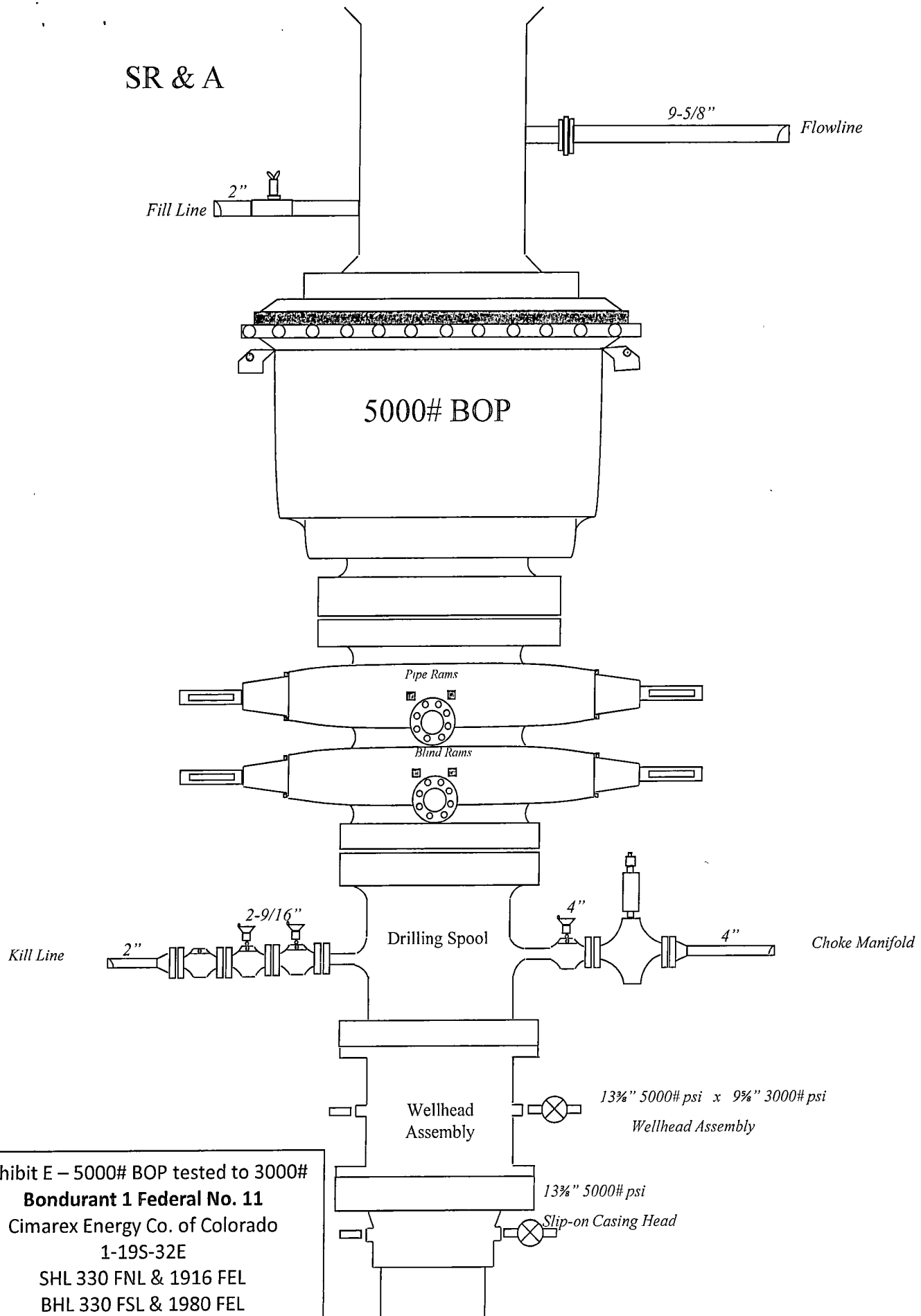


Exhibit E – 5000# BOP tested to 3000#
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
1-19S-32E
SHL 330 FNL & 1916 FEL
BHL 330 FSL & 1980 FEL
Lea County, NM

Drilling Operations Choke Manifold 5M Service tested to 3M

Exhibit E-2 – Choke Manifold Diagram

Bondurant 1 Federal No. 11

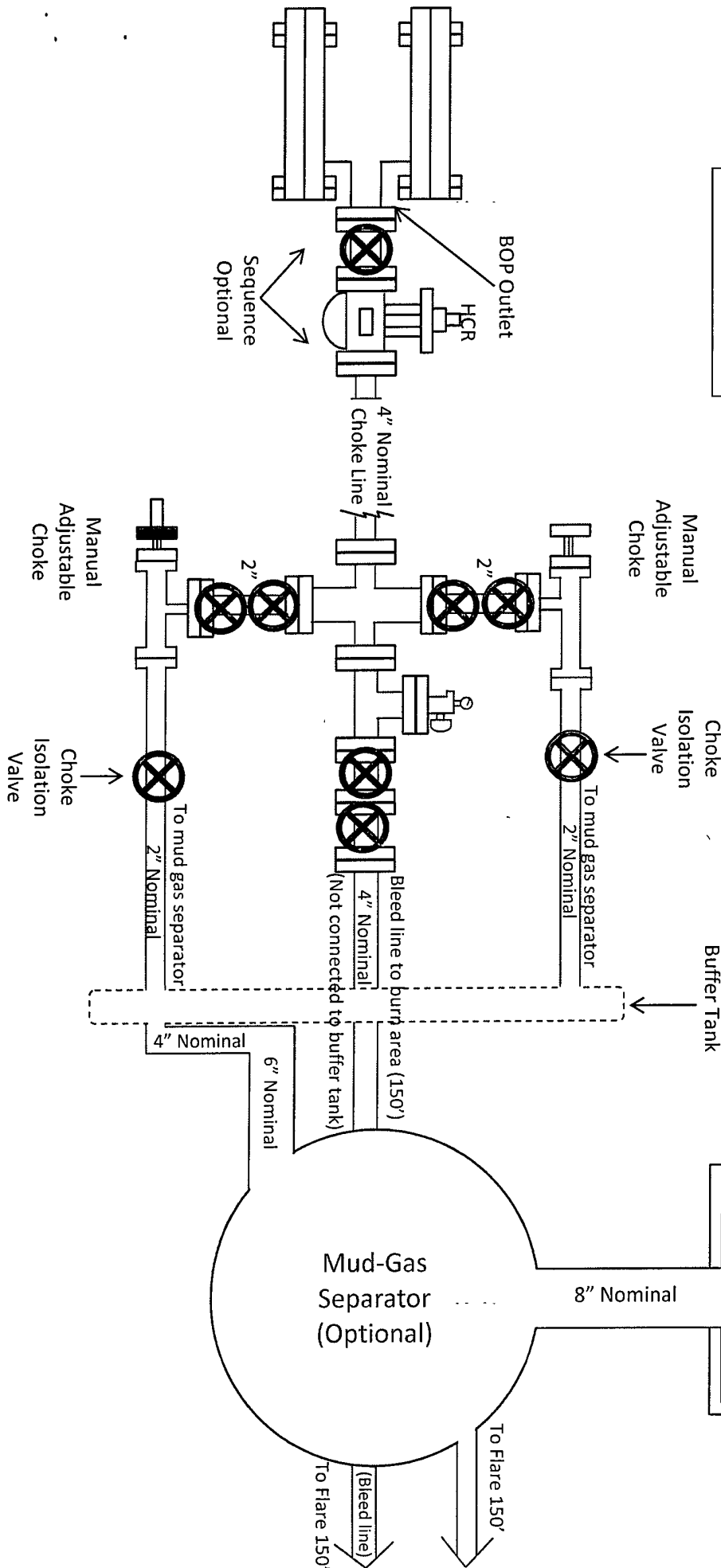
Cimarex Energy Co. of Colorado

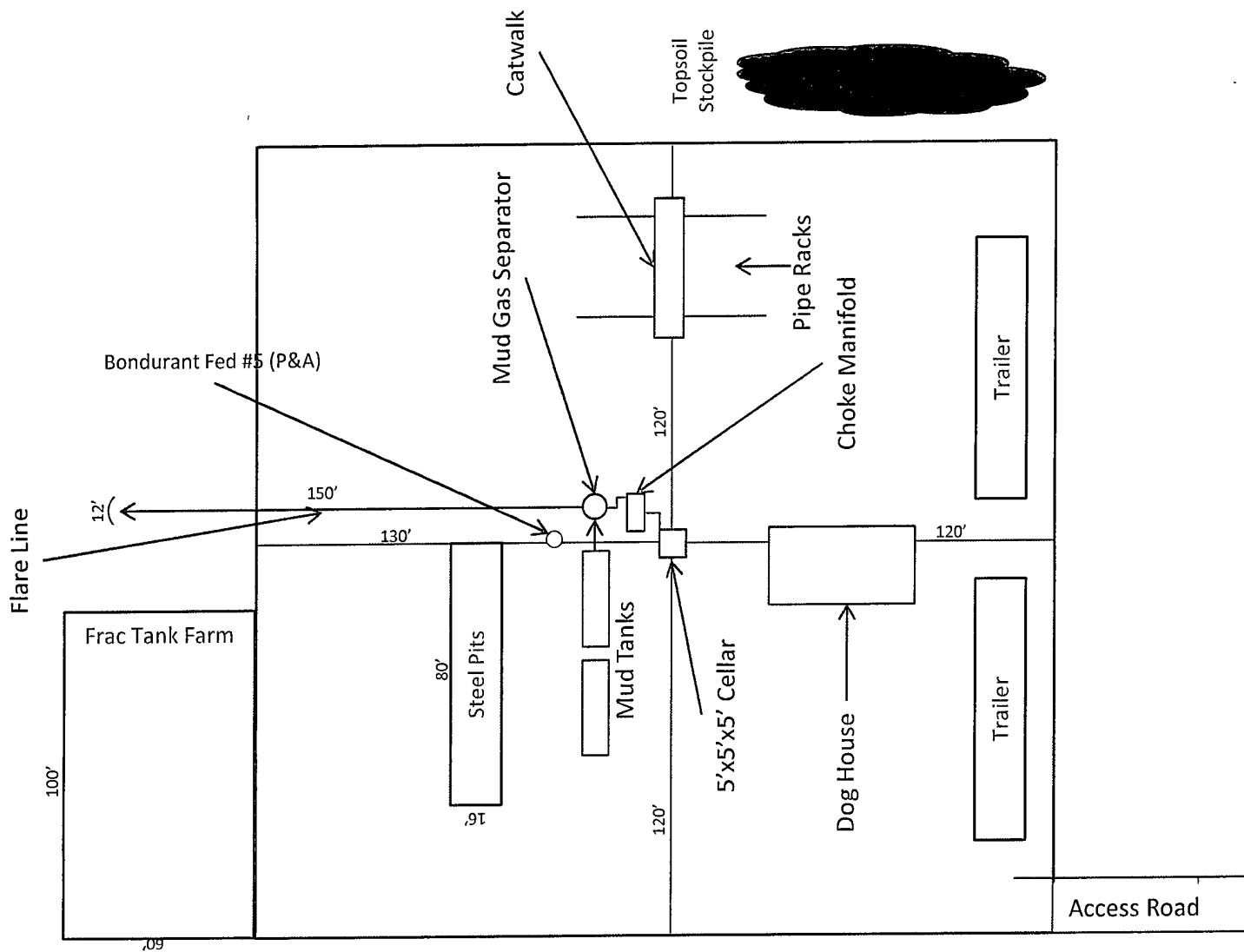
1-19S-32E

SHL 330 FNL & 1916 FEL

BHL 330 FSL & 1980 FEL

Lea County, NM

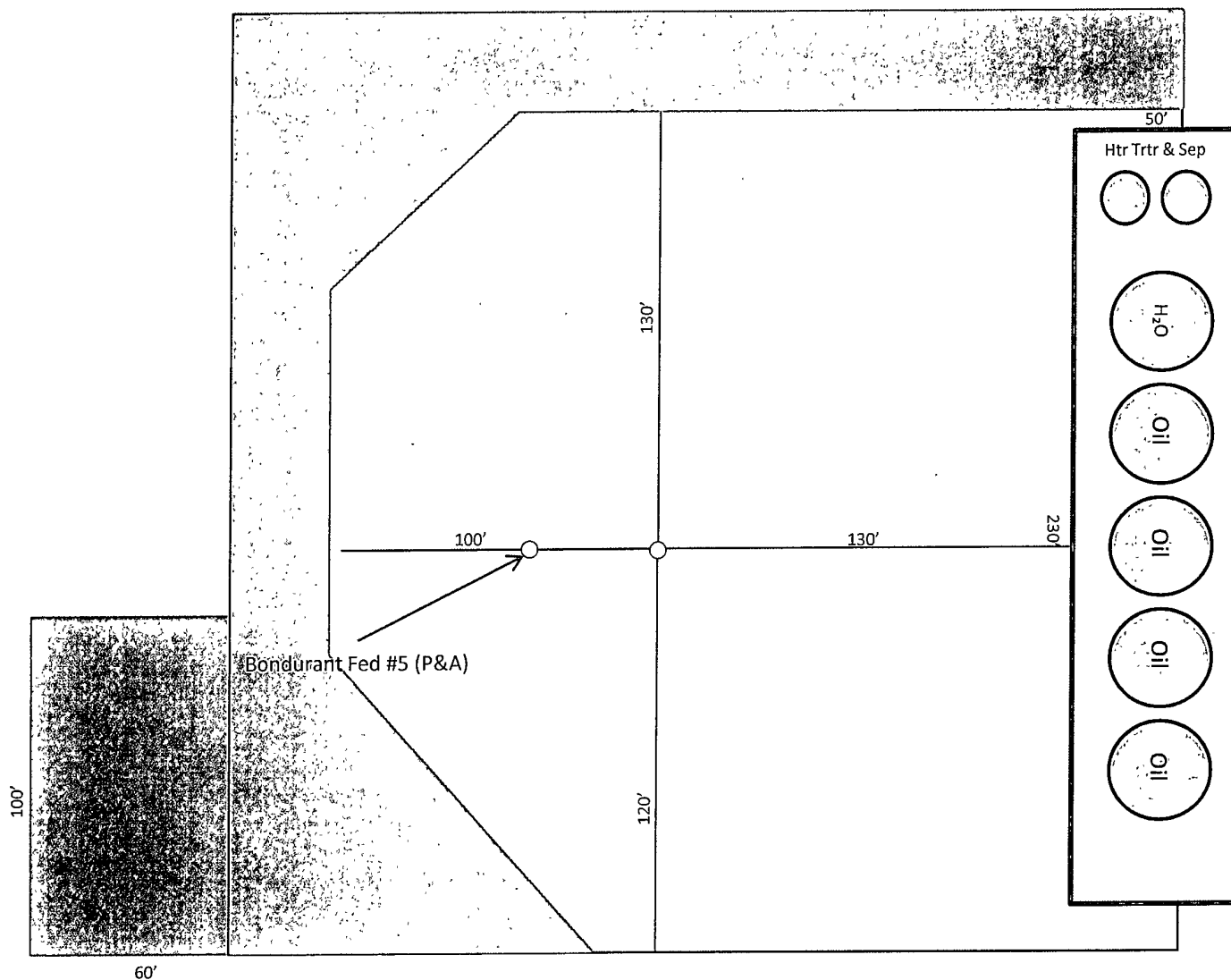




1"=50'



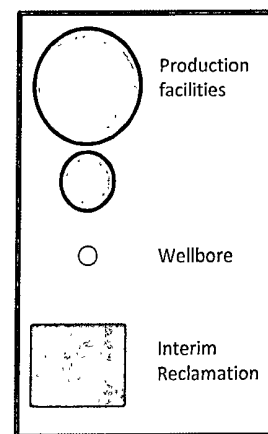
Exhibit D – Rig Diagram
Bondurant 1 Federal No. 11
 Cimarex Energy Co. of Colorado
 1-19S-32E
 SHL 330 FNL & 1916 FEL
 BHL 330 FSL & 1980 FEL
 Lea County, NM



Access Road

Exhibit D-1
 Production Facilities Layout Diagram
Bondurant 1 Federal No. 11
 Cimarex Energy Co. of Colorado
 1-19S-32E
 SHL 330 FNL & 1916 FEL
 BHL 330 FSL & 1980 FEL
 Lea County, NM

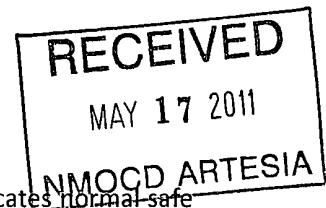
N



1"=50'

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2 H₂S Detection and Alarm Systems:
 - A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.
- 3 Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock at briefing area should be high enough to be visible.
- 4 Condition Flags and Signs:
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.
- 5 Well control equipment:
 - A. See exhibit "E"
- 6 Communication:
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7 Drillstem Testing:

No DSTs or cores are planned at this time.
- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.



H₂S Contingency Plan
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea County, NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- ★ Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- ★ Be equipped with H₂S monitors and air packs in order to control the release.
- ★ Use the "buddy system" to ensure no injuries occur during the response.
- ★ Take precautions to avoid personal injury during this operation.
- ★ Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- ★ Have received training in the:
 - ♦ Detection of H₂S, and
 - ♦ Measures for protection against the gas,
 - ♦ Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts
Bondurant 1 Federal No. 11
 Cimarex Energy Co. of Colorado
 Unit B, Section 1
 T19S-R32E, Lea County, NM

Company Office

Cimarex Energy Co. of Colorado	800-969-4789
Co. Office and After-Hours Menu	

Key Personnel

Name	Title	Office	Mobile
Doug Park	Drilling Manager	432-620-1934	972-333-1407
Dee Smith	Drilling Super	432-620-1933	972-882-1010
Jim Evans	Drilling Super	432-620-1929	972-465-0564
Roy Shirley	Field Super		432-634-2136

Artesia

Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283

Carlsbad

Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
US Bureau of Land Management	575-887-6544

Santa Fe

New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635

National

National Emergency Response Center (Washington, D.C.)	800-424-8802
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Medical

Flight for Life - 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare - R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949

Other

Boots & Coots IWC	800-256-9688	or	281-931-8884
Cudd Pressure Control	432-699-0139	or	432-563-3356
Halliburton	575-746-2757		
B.J. Services	575-746-3569		

Surface Use Plan
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea County, NM

1. Existing Roads: Area maps, Exhibit "A" shows the proposed well site as staked. Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, and Exhibit "C-1" is a well site layout map, showing proposed road to location.

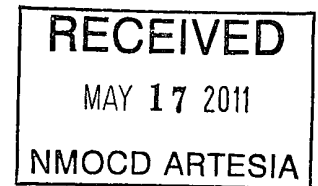
A. The maximum width of the driving surface will be 30.' The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

B. From Maljamar and Dry Lake Rd, go 5.3 miles East on lease road, then North 2 miles, then Northwest 0.4 miles to proposed location.

2. Planned Access Roads: No new lease roads are proposed. The existing road to the location will be maintained in existing or better condition.

3. Location of Existing Wells in a One-Mile Radius - Exhibit A

- | | |
|----------------------|-------------------------|
| A. Water wells - | None known |
| B. Disposal wells - | None known |
| C. Drilling wells - | None known |
| D. Producing wells - | As shown on Exhibit "A" |
| E. Abandoned wells - | As shown on Exhibit "A" |



4. Location of Proposed Production Facilities:

If on completion this well is a producer, a tank battery will be used and the necessary production equipment will be installed at the wellsite. See production facilities layout diagram. Any changes to the facilities or off-site facilities will be accompanied by a Sundry Notice.

5. Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads.

6. Source of Construction Material:

If possible, native caliche will be obtained from the excavation of drill site. Topsoil will be pushed back from the drill site and existing caliche will be ripped and compacted. Then topsoil will be stockpiled on location as depicted on Exhibit "D" (rig layout). If additional material is needed, it will be purchased from a BLM-approved pit as near as possible to the well

7. Methods of Handling Waste Material:

- A. Drill cuttings will be separated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically and hauled to a waste disposal facility. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

Surface Use Plan
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea County, NM

8. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

9. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- C. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- D. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- E. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements. Please see Production Facilities Layout Diagram, exhibit D-1.

11. Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. In lieu of an archaeological survey report, Cimarex will be submitting an MOA application for this well pad and access road since they are within the MOA boundary.
- D. There are no known dwellings within 1½ miles of this location.

Operator Certification Statement
Bondurant 1 Federal No. 11
Cimarex Energy Co. of Colorado
Unit B, Section 1
T19S-R32E, Lea County, NM

Operator's Representative

Cimarex Energy Co. of Colorado
600 N. Marienfeld St., Ste. 600
Midland, TX 79701
Office Phone: (432) 571-7800
Zeno Farris

CERTIFICATION: I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 26th day of January, 2011

NAME: Zeno Farris
Zeno Farris

TITLE: Manager Operations Administration

ADDRESS: 600 N. Marienfeld St., Ste. 600
Midland, TX 79701

TELEPHONE: (432) 620-1938

EMAIL: zfarris@cimarex.com

Field Representative: Same as above