

HOBBS OGD

MAR 26 2013

Form 3160-3
(March 2012)

Operator Copy

FORM APPROVED
OMB No. 1094-0137
Expires October 31, 2014RECEIVED 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-0392082A
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.
3a. Address 600 N. Marienfeld, Ste 600 Midland, TX 79701		8. Lease Name and Well No. Hallertau 4 Federal 1H < 39100 >
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-025- 41069
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 330' FNL & 560' FWL Unit D At proposed prod. zone 330' FSL & 350' FWL Unit M		10. Field and Pool, or Exploratory Wildcat Bone Spring Upper Shale < 97838 >
14. Distance in miles and direction from nearest town or post office* 29 miles west of Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area 4-26S-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 1400.49	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 150' from #5H	19. Proposed Depth MD 13551' TVD 9067' Pilot Hole 9900'	20. BLM/BIA Bond No. on file NM2575; NMB000835
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3310' GR	22. Approximate date work will start* 01/01/2013	23. Estimated duration 25-30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature	Name (Printed/Typed) Paula Brunson	Date 10/04/2012
Title Regulatory Analyst		
Approved by (Signature)	Name (Printed/Typed) Is/ Don Peterson	Date 3/15/13
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.C. 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.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

KZ
03/26/13Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAR 28 2013

Drilling Plan
Hallertau 4 Federal 1H
 Cimarex Energy Co. of Colorado
 Unit D, Section 4
 T26S-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 & 560' FWL
 BHL 330' FSL & 350' FWL
- 2 **Elevation above sea level:** 3310' 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 13551' TVD 9067' Pilot Hole 9900'
- 6 **Estimated tops of geological markers:**

Groundwater	275'	
Rustler	1054'	
Top Salt	1451'	
Base Salt	4308	
Bell Canyon	4520'	Possible hydrocarbons
Cherry Canyon	5495'	
Brushy Canyon	7249'	
Bone Spring	8572'	
Bone Spring "A" Shale	8676'	Possible hydrocarbons
Bone Spring "B" Carb	9126'	Possible hydrocarbons
Bone Spring "C" Shale	9255'	Possible hydrocarbons
1st Bone Spring SS	9548'	
Pilot Hole TD	9900'	
2nd Bone Spring Carb	9985'	
2nd Bone Spring SS	10180'	Possible hydrocarbons
3rd Bone Spring Carb	10811'	

7 **Proposed Mud Circulating System:**

Depth			Mud Wt	Visc	Fluid Loss	Type Mud
0'	to	1100'	8.4 - 8.6	28	NC	FW
1100'	to	4500'	10.0	30-32	NC	Brine water
4500'	to	13551'	8.4-9.5	30-32	NC	FW and brine, 2% KCL in the lateral

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 and intermediate casing, drill 7 7/8" or 8 3/4" hole to 9900' and log. Pump 30 bbls MUDPUSHIII 12 ppg, followed by 495 sks Type H cement, D080 (Dispersant) 0.080 gal/sk, D177 (Retarder) 0.045 gal/sk 17.5 ppg yield 0.95 & 0% excess from 9900' to 8590'. Set whipstock and kick off 7 7/8" or 8 3/4" lateral @ 8590' and drill to TD @ 13551' MD, 9067' TVD. Run 5 1/2" casing and cement per plan.

Drilling Plan
Hallertau 4 Federal 1H
Cimarex Energy Co. of Colorado
Unit D, Section 4
T26S-R32E, Lea County, NM

8 Casing & Cementing Program:

See COA

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface	17 1/2"	0' to 1100'	New 13 3/8"	48#	STC	H-40
Intermediate	12 1/4"	0' to 3400'	New 9 5/8"	36#	LTC	J-55
Intermediate	12 1/4"	3400' to 4500'	New 9 5/8"	40#	LTC	J-55
Production	8 3/4" or 7 7/8"	0' to 8590'	New 5 1/2"	17#	LTC	P-110
Production	8 3/4" or 7 7/8"	8590' to 13551'	New 5 1/2"	17#	BTC	P-110

9 Cementing:

Surface	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	727	1.75	13.5	1272	Class C + Bentonite + Calcium Chloride + LCM
Tail	148	1.34	14.8	199	Class C + LCM

TOC: Surface 86% Excess Centralizers per Onshore Order 2.III.B.1f

Intermediate	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	1009	1.88	12.9	1897	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	263	1.34	14.8	352	Class C + retarder + LCM

TOC: Surface 80% Excess

Note: Casing will be kept filled with liquid/mud while running casing in hole *See COA*

See COA

Production	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	360	2.4	11.9	864	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
Tail	970	1.24	14.5	1203	- 50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder

Cement volumes will be adjusted depending on hole size.

TOC: 4,000' 26% Excess No centralizers planned in the lateral section. 1 every jt from EOC to KOP. 1 every 4th joint from KOP to 500' inside previous casing.

See COA

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

10 Pressure Control Equipment:

Exhibit "E". A 13 3/8" 5000 PSI working pressure BOP, tested to 3000 psi on the surface casing and 5000 psi on the Intermediate, 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 installed 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.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high on the surface casing and 250 psi low and 5000 psi high on the intermediate. Hydril will be tested to 250 psi low and 1500 psi high on the surface and 250 psi low and 2500 high on the intermediate casing.

See COA Cimarex Energy Co. of Colorado requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Drilling Plan
Hallertau 4 Federal 1H
Cimarex Energy Co. of Colorado
Unit D, Section 4
T26S-R32E, Lea County, NM

11 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 4500' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR Surface to TD
- C. No DSTs or cores are planned at this time.

12 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 4455 psi Estimated BHT 130°

13 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.

14 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.

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Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hallertau) Sec 4, T26S, R32E	Wellbore	No. 1H PWB
Facility	Hallertau 4 Federal		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 3.0.0
North Reference	Grid	User	Harrkol
Scale	0.999955	Report Generated	7/30/2012 at 5:05:25 PM
Convergence at slot	0.34° East	Database/Source file	WA Midland/No. 1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-36.32	-4104.06	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W
Facility Reference Pt			745669.47	393012.62	32°04'43.514"N	103°40'25.012"W
Field Reference Pt			745669.47	393012.62	32°04'43.514"N	103°40'25.012"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H (KB) to GL	3327.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H (KB) to Mean Sea Level	3327.00ft
Vertical Reference Pt	Rig on No. 1H (KB)	Rig on No. 1H (KB) to Mud Line at Slot (No. 1H SHL)	3327.00ft
MD Reference Pt	Rig on No. 1H (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	182.12°



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hallertau) Sec 4, T26S, R32E	Wellbore	No. 1H PWB
Facility	Hallertau 4 Federal		

WELLPATH DATA (149 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	182.124	0.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
17.00	0.000	182.124	17.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Tie On
117.00†	0.000	182.124	117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
217.00†	0.000	182.124	217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
317.00†	0.000	182.124	317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
417.00†	0.000	182.124	417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
517.00†	0.000	182.124	517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
617.00†	0.000	182.124	617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
717.00†	0.000	182.124	717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
817.00†	0.000	182.124	817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
917.00†	0.000	182.124	917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1017.00†	0.000	182.124	1017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1117.00†	0.000	182.124	1117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1217.00†	0.000	182.124	1217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1317.00†	0.000	182.124	1317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1417.00†	0.000	182.124	1417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1517.00†	0.000	182.124	1517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1617.00†	0.000	182.124	1617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1702.00†	0.000	182.124	1702.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Top Salt
1717.00†	0.000	182.124	1717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1817.00†	0.000	182.124	1817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
1917.00†	0.000	182.124	1917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2017.00†	0.000	182.124	2017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2117.00†	0.000	182.124	2117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2217.00†	0.000	182.124	2217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2317.00†	0.000	182.124	2317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2417.00†	0.000	182.124	2417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2517.00†	0.000	182.124	2517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2617.00†	0.000	182.124	2617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2717.00†	0.000	182.124	2717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2817.00†	0.000	182.124	2817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
2917.00†	0.000	182.124	2917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3017.00†	0.000	182.124	3017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3117.00†	0.000	182.124	3117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3217.00†	0.000	182.124	3217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3317.00†	0.000	182.124	3317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3417.00†	0.000	182.124	3417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3517.00†	0.000	182.124	3517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3617.00†	0.000	182.124	3617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3717.00†	0.000	182.124	3717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3817.00†	0.000	182.124	3817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
3917.00†	0.000	182.124	3917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4017.00†	0.000	182.124	4017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4117.00†	0.000	182.124	4117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4217.00†	0.000	182.124	4217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Facility	Hallertau 4 Federal		

WELLPATH DATA (149 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4297.00†	0.000	182.124	4297.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Base Salt
4317.00†	0.000	182.124	4317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4417.00†	0.000	182.124	4417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4497.00†	0.000	182.124	4497.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Delaware
4517.00†	0.000	182.124	4517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4617.00†	0.000	182.124	4617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4717.00†	0.000	182.124	4717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4817.00†	0.000	182.124	4817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
4917.00†	0.000	182.124	4917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5017.00†	0.000	182.124	5017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5117.00†	0.000	182.124	5117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5217.00†	0.000	182.124	5217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5317.00†	0.000	182.124	5317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5417.00†	0.000	182.124	5417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5517.00†	0.000	182.124	5517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5617.00†	0.000	182.124	5617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5637.00†	0.000	182.124	5637.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Cherry Canyon
5717.00†	0.000	182.124	5717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5817.00†	0.000	182.124	5817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
5917.00†	0.000	182.124	5917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6017.00†	0.000	182.124	6017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6117.00†	0.000	182.124	6117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6217.00†	0.000	182.124	6217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6317.00†	0.000	182.124	6317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6417.00†	0.000	182.124	6417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6517.00†	0.000	182.124	6517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6617.00†	0.000	182.124	6617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6717.00†	0.000	182.124	6717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6817.00†	0.000	182.124	6817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
6917.00†	0.000	182.124	6917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7017.00†	0.000	182.124	7017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7117.00†	0.000	182.124	7117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7217.00†	0.000	182.124	7217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7317.00†	0.000	182.124	7317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7417.00†	0.000	182.124	7417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7517.00†	0.000	182.124	7517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7617.00†	0.000	182.124	7617.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7717.00†	0.000	182.124	7717.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7817.00†	0.000	182.124	7817.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
7917.00†	0.000	182.124	7917.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8017.00†	0.000	182.124	8017.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8117.00†	0.000	182.124	8117.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8217.00†	0.000	182.124	8217.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8317.00†	0.000	182.124	8317.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8357.00†	0.000	182.124	8357.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Brushy Canyon Lower



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RECORDING WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hallertau) Sec 4, T26S, R32E	Wellbore	No. 1H PWB
Facility	Hallertau 4 Federal		

WELL PATH DATA (149 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8417.00†	0.000	182.124	8417.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8517.00†	0.000	182.124	8517.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	
8562.00†	0.000	182.124	8562.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Bone Spring
8590.00	0.000	182.124	8590.00	0.00	0.00	0.00	741565.60	392976.30	32°04'43.400"N	103°41'12.712"W	0.00	Est. KOP
8617.00†	3.243	182.124	8616.99	0.76	0.76	-0.03	741565.57	392975.54	32°04'43.393"N	103°41'12.712"W	12.01	
8667.34†	9.290	182.124	8667.00	6.26	-6.25	-0.23	741565.37	392970.05	32°04'43.339"N	103°41'12.715"W	12.01	Bone Spring "A" Shale
8717.00†	15.255	182.124	8715.50	16.81	-16.80	-0.62	741564.98	392959.51	32°04'43.234"N	103°41'12.720"W	12.01	
8817.00†	27.267	182.124	8808.53	53.00	-52.97	-1.96	741563.64	392923.34	32°04'42.876"N	103°41'12.738"W	12.01	
8917.00†	39.278	182.124	8891.98	107.76	-107.69	-3.99	741561.61	392868.62	32°04'42.335"N	103°41'12.766"W	12.01	
9017.00†	51.290	182.124	8962.21	178.69	-178.57	-6.62	741558.98	392797.74	32°04'41.634"N	103°41'12.801"W	12.01	
9117.00†	63.302	182.124	9016.14	262.69	-262.51	-9.74	741555.86	392713.81	32°04'40.803"N	103°41'12.843"W	12.01	
9217.00†	75.313	182.124	9051.41	356.06	-355.82	-13.20	741552.40	392620.50	32°04'39.880"N	103°41'12.890"W	12.01	
9317.00†	87.325	182.124	9066.48	454.74	-454.43	-16.85	741548.75	392521.90	32°04'38.905"N	103°41'12.939"W	12.01	
9339.27	90.000	182.124	9067.00	477.00	-476.67	-17.68	741547.92	392499.65	32°04'38.685"N	103°41'12.951"W	12.01	EOC
9339.29	90.000	182.124	9067.00	477.02	-476.69	-17.68	741547.92	392499.63	32°04'38.684"N	103°41'12.951"W	2.00	TL
9417.00†	90.000	182.124	9067.00	554.73	-554.35	-20.56	741545.04	392421.98	32°04'37.916"N	103°41'12.990"W	0.00	
9517.00†	90.000	182.124	9067.00	654.73	-654.28	-24.27	741541.33	392322.05	32°04'36.928"N	103°41'13.040"W	0.00	
9617.00†	90.000	182.124	9067.00	754.73	-754.21	-27.97	741537.63	392222.12	32°04'35.939"N	103°41'13.090"W	0.00	
9717.00†	90.000	182.124	9067.00	854.73	-854.14	-31.68	741533.92	392122.20	32°04'34.950"N	103°41'13.140"W	0.00	
9817.00†	90.000	182.124	9067.00	954.73	-954.07	-35.39	741530.21	392022.27	32°04'33.962"N	103°41'13.190"W	0.00	
9917.00†	90.000	182.124	9067.00	1054.73	-1054.01	-39.09	741526.51	391922.34	32°04'32.973"N	103°41'13.240"W	0.00	
10017.00†	90.000	182.124	9067.00	1154.73	-1153.94	-42.80	741522.80	391822.42	32°04'31.984"N	103°41'13.290"W	0.00	
10117.00†	90.000	182.124	9067.00	1254.73	-1253.87	-46.51	741519.09	391722.49	32°04'30.996"N	103°41'13.340"W	0.00	
10217.00†	90.000	182.124	9067.00	1354.73	-1353.80	-50.22	741515.39	391622.56	32°04'30.007"N	103°41'13.390"W	0.00	
10317.00†	90.000	182.124	9067.00	1454.73	-1453.73	-53.92	741511.68	391522.64	32°04'29.019"N	103°41'13.440"W	0.00	
10417.00†	90.000	182.124	9067.00	1554.73	-1553.66	-57.63	741507.97	391422.71	32°04'28.030"N	103°41'13.490"W	0.00	
10517.00†	90.000	182.124	9067.00	1654.73	-1653.59	-61.34	741504.27	391322.78	32°04'27.041"N	103°41'13.540"W	0.00	
10617.00†	90.000	182.124	9067.00	1754.73	-1753.52	-65.04	741500.56	391222.86	32°04'26.053"N	103°41'13.590"W	0.00	
10717.00†	90.000	182.124	9067.00	1854.73	-1853.46	-68.75	741496.85	391122.93	32°04'25.064"N	103°41'13.640"W	0.00	
10743.23†	90.000	182.124	9067.00	1880.96	-1879.67	-69.72	741495.88	391096.72	32°04'24.805"N	103°41'13.653"W	0.00	HZ Target
10817.00†	90.000	182.124	9067.00	1954.73	-1953.39	-72.46	741493.15	391023.00	32°04'24.076"N	103°41'13.690"W	0.00	
10917.00†	90.000	182.124	9067.00	2054.73	-2053.32	-76.16	741489.44	390923.08	32°04'23.087"N	103°41'13.740"W	0.00	
11017.00†	90.000	182.124	9067.00	2154.73	-2153.25	-79.87	741485.73	390823.15	32°04'22.098"N	103°41'13.790"W	0.00	
11117.00†	90.000	182.124	9067.00	2254.73	-2253.18	-83.58	741482.03	390723.23	32°04'21.110"N	103°41'13.840"W	0.00	
11217.00†	90.000	182.124	9067.00	2354.73	-2353.11	-87.28	741478.32	390623.30	32°04'20.121"N	103°41'13.890"W	0.00	
11317.00†	90.000	182.124	9067.00	2454.73	-2453.04	-90.99	741474.61	390523.37	32°04'19.132"N	103°41'13.940"W	0.00	
11417.00†	90.000	182.124	9067.00	2554.73	-2552.97	-94.70	741470.91	390423.45	32°04'18.144"N	103°41'13.990"W	0.00	
11517.00†	90.000	182.124	9067.00	2654.73	-2652.91	-98.41	741467.20	390323.52	32°04'17.155"N	103°41'14.040"W	0.00	
11617.00†	90.000	182.124	9067.00	2754.73	-2752.84	-102.11	741463.49	390223.59	32°04'16.167"N	103°41'14.090"W	0.00	
11717.00†	90.000	182.124	9067.00	2854.73	-2852.77	-105.82	741459.79	390123.67	32°04'15.178"N	103°41'14.140"W	0.00	
11817.00†	90.000	182.124	9067.00	2954.73	-2952.70	-109.53	741456.08	390023.74	32°04'14.189"N	103°41'14.190"W	0.00	
11917.00†	90.000	182.124	9067.00	3054.73	-3052.63	-113.23	741452.37	389923.81	32°04'13.201"N	103°41'14.240"W	0.00	
12017.00†	90.000	182.124	9067.00	3154.73	-3152.56	-116.94	741448.67	389823.89	32°04'12.212"N	103°41'14.290"W	0.00	
12117.00†	90.000	182.124	9067.00	3254.73	-3252.49	-120.65	741444.96	389723.96	32°04'11.223"N	103°41'14.340"W	0.00	
12217.00†	90.000	182.124	9067.00	3354.73	-3352.42	-124.35	741441.25	389624.03	32°04'10.235"N	103°41'14.390"W	0.00	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Hallertau) Sec 4, T26S, R32E	Wellbore	No. 1H PWB
Facility	Hallertau 4 Federal		

WELLPATH DATA (149 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12317.00†	90.000	182.124	9067.00	3454.73	-3452.36	-128.06	741437.55	389524.11	32°04'09.246"N	103°41'14.441"W	0.00	
12417.00†	90.000	182.124	9067.00	3554.73	-3552.29	-131.77	741433.84	389424.18	32°04'08.258"N	103°41'14.491"W	0.00	
12517.00†	90.000	182.124	9067.00	3654.73	-3652.22	-135.47	741430.13	389324.25	32°04'07.269"N	103°41'14.541"W	0.00	
12617.00†	90.000	182.124	9067.00	3754.73	-3752.15	-139.18	741426.43	389224.33	32°04'06.280"N	103°41'14.591"W	0.00	
12717.00†	90.000	182.124	9067.00	3854.73	-3852.08	-142.89	741422.72	389124.40	32°04'05.292"N	103°41'14.641"W	0.00	
12817.00†	90.000	182.124	9067.00	3954.73	-3952.01	-146.60	741419.01	389024.47	32°04'04.303"N	103°41'14.691"W	0.00	
12917.00†	90.000	182.124	9067.00	4054.73	-4051.94	-150.30	741415.30	388924.55	32°04'03.314"N	103°41'14.741"W	0.00	
13017.00†	90.000	182.124	9067.00	4154.73	-4151.87	-154.01	741411.60	388824.62	32°04'02.326"N	103°41'14.791"W	0.00	
13117.00†	90.000	182.124	9067.00	4254.73	-4251.81	-157.72	741407.89	388724.69	32°04'01.337"N	103°41'14.841"W	0.00	
13217.00†	90.000	182.124	9067.00	4354.73	-4351.74	-161.42	741404.18	388624.77	32°04'00.349"N	103°41'14.891"W	0.00	
13317.00†	90.000	182.124	9067.00	4454.73	-4451.67	-165.13	741400.48	388524.84	32°03'59.360"N	103°41'14.941"W	0.00	
13417.00†	90.000	182.124	9067.00	4554.73	-4551.60	-168.84	741396.77	388424.91	32°03'58.371"N	103°41'14.991"W	0.00	
13517.00†	90.000	182.124	9067.00	4654.73	-4651.53	-172.54	741393.06	388324.99	32°03'57.383"N	103°41'15.041"W	0.00	
13551.11	90.000	182.124	9067.00	4688.84	-4685.62	-173.81	741391.80	388290.90	32°03'57.045"N	103°41'15.058"W	0.00	No. 1H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) Hallertau 4 Federal No. 1H PBHL (Rev-0)	13551.11	9067.00	-4685.62	-173.81	741391.80	388290.90	32°03'57.045"N	103°41'15.058"W	point

SURVEY PROGRAM - Ref Wellbore: No. 1H PWB Ref Wellpath: Rev-B.0				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3327.00	13551.11	NaviTrak (Standard)		No. 1H PWB

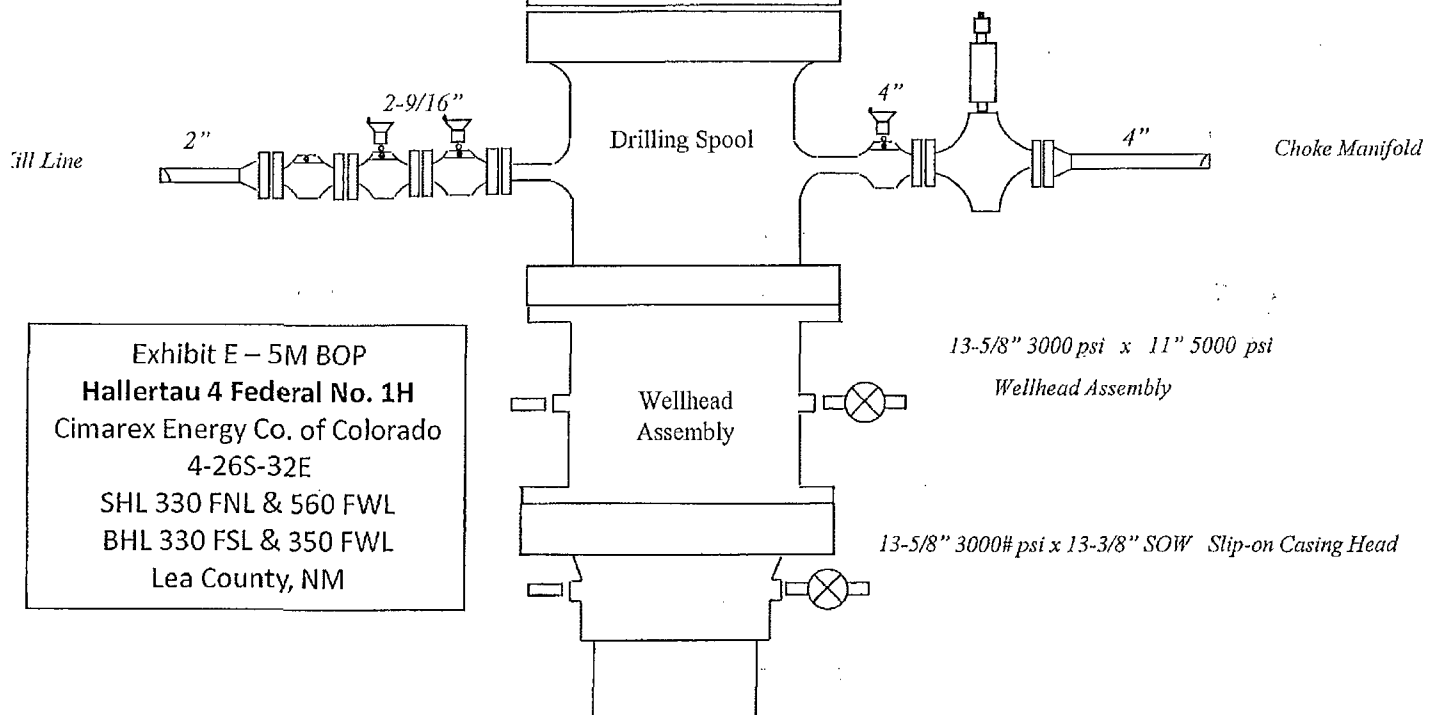
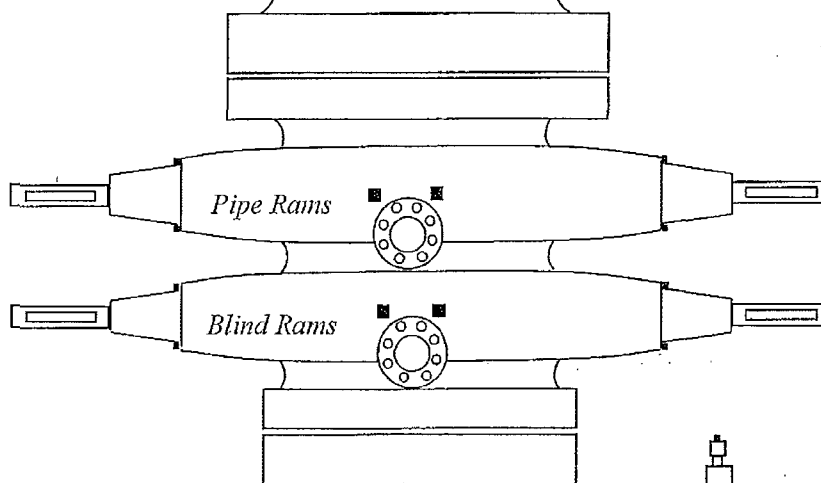
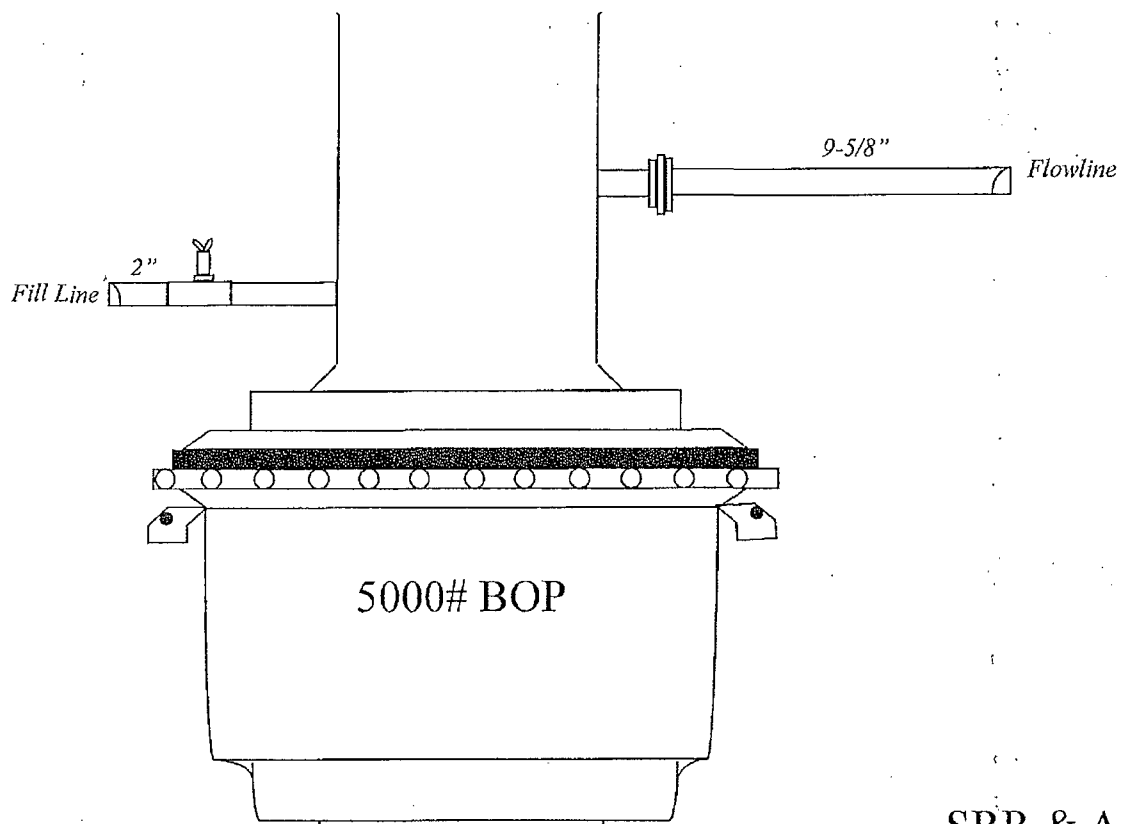
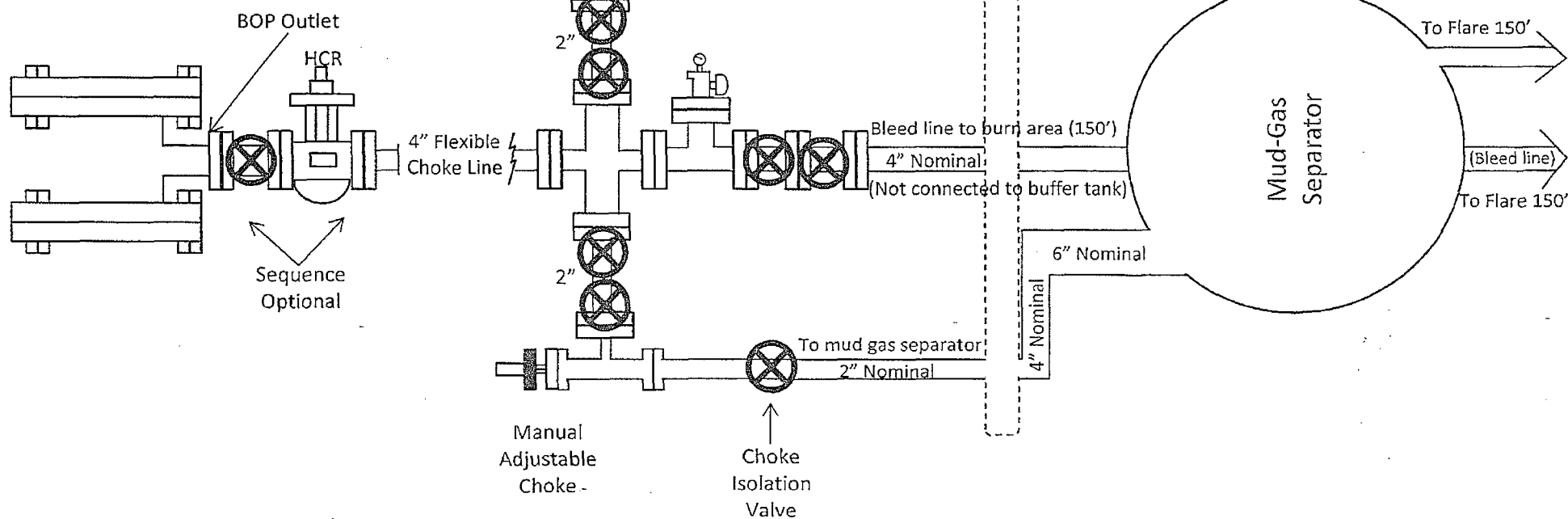
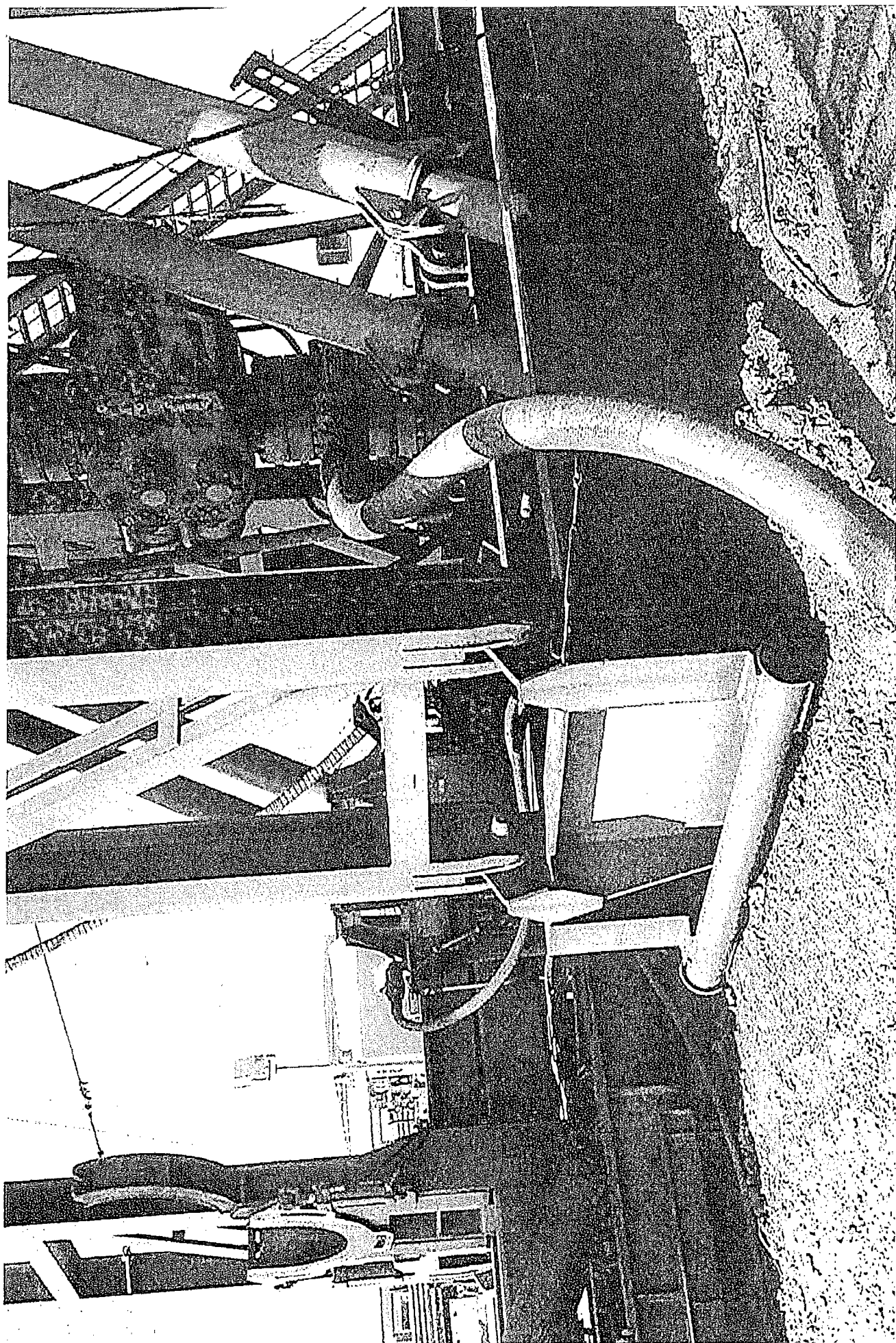


Exhibit E – 5M BOP
Hallertau 4 Federal No. 1H
 Cimarex Energy Co. of Colorado
 4-26S-32E
 SHL 330 FNL & 560 FWL
 BHL 330 FSL & 350 FWL
 Lea County, NM

Drilling Operations Choke Manifold 5M Service tested to 3M

Exhibit E-1 – Choke Manifold Diagram
Hallertau 4 Federal No. 1H
Cimarex Energy Co. of Colorado
4-26S-32E
SHL 330 FNL & 560 FWL
BHL 330 FSL & 350 FWL
Lea County, NM







Midwest Hose
& Specialty, Inc.

INTERNAL HYDROSTATIC TEST REPORT		
Customer: Oderco Inc		P.O. Number: odyd-271
HOSE SPECIFICATIONS		
Type: Stainless Steel Armor Choke & Kill Hose	Hose Length: 45'ft.	
I.D. 4 INCHES	O.D. 9 INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE 0 PSI
COUPLINGS		
Stem Part No. OKC OKC	Ferrule No. OKC OKC	
Type of Coupling: Swage-It		
PROCEDURE		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
TIME HELD AT TEST PRESSURE 15 MIN.	ACTUAL BURST PRESSURE: 0 PSI	
Hose Assembly Serial Number: 79793	Hose Serial Number: OKC	
Comments:		
Date: 3/8/2011	Tested: <i>A. Jain Samu.</i>	Approved: <i>[Signature]</i>



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

March 3, 2011

Customer: Houston

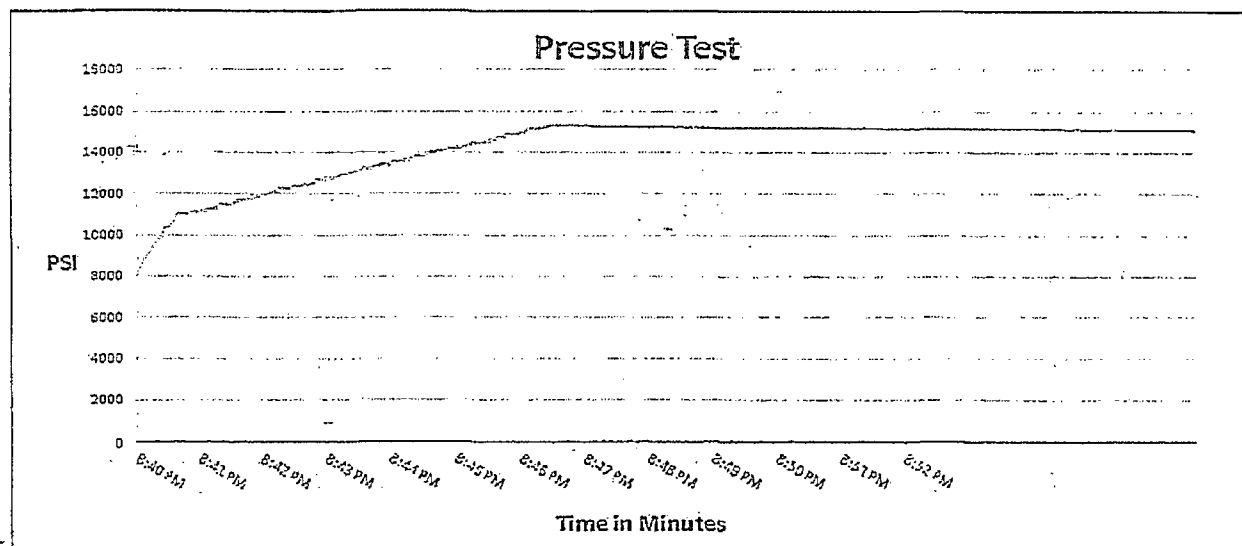
Pick Ticket #: 94260

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
C S K	45'
<u>I.D.</u>	<u>O.D.</u>
4"	6.05"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
41/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.38"	6.25"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
5544	79793



Test Pressure
15000 PSI

Time Held at Test Pressure
11 Minutes

Actual Burst Pressure

Peak Pressure
15483 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Zac McConnell

Approved By: Kim Thomas

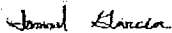
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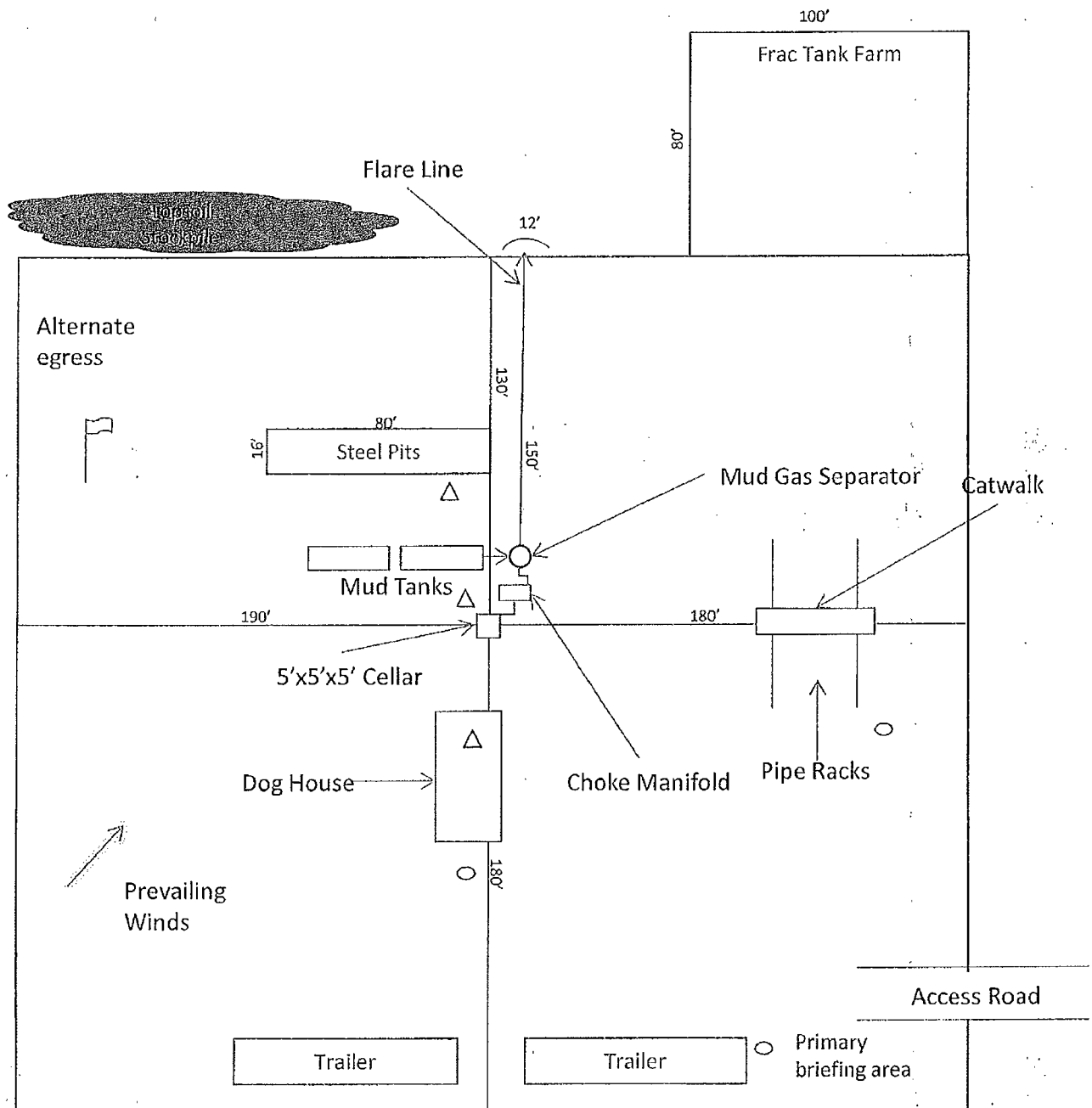
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Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer:		PO
DEM		ODYD-271
SPECIFICATIONS		
Sales Order	Dated:	
79793	3/8/2011	
We hereby certify that the material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041		
Comments:		
Approved:		Date:
		3/8/2011



-  Wind Direction Indicators (wind sock or streamers)
-  • H2S Monitors (alarms at bell nipple and shale shaker)
-  Briefing Areas



Exhibit D – Rig Diagram
Hallertau 4 Federal No. 1H
 Cimarex Energy Co. of Colorado
 4-26S-32E
 SHL 330 FNL & 560 FWL
 BHL 330 FSL & 350 FWL
 Lea County, NM

Hydrogen Sulfide Drilling Operations Plan

Hallertau 4 Federal 1H

Cimarex Energy Co. of Colorado

Unit D, Section 4

T26S-R32E, Lea County, NM

- 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
Hallertau 4 Federal 1H
Cimarex Energy Co. of Colorado
Unit D, Section 4
T26S-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

Stata Production Company'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. Stata Production Company's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts
Hallertau 4 Federal 1H
Cimarex Energy Co. of Colorado
Unit D, Section 4
T26S-R32E, Lea County, NM

Company Office

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

800-969-4789

Key Personnel

Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8285
Scott Lucas	Drilling Superintendent		432-894-5572
Roy Shirley	Field Superintendent		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		

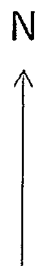
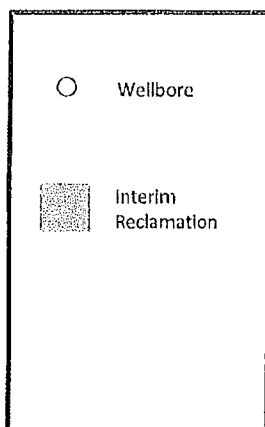
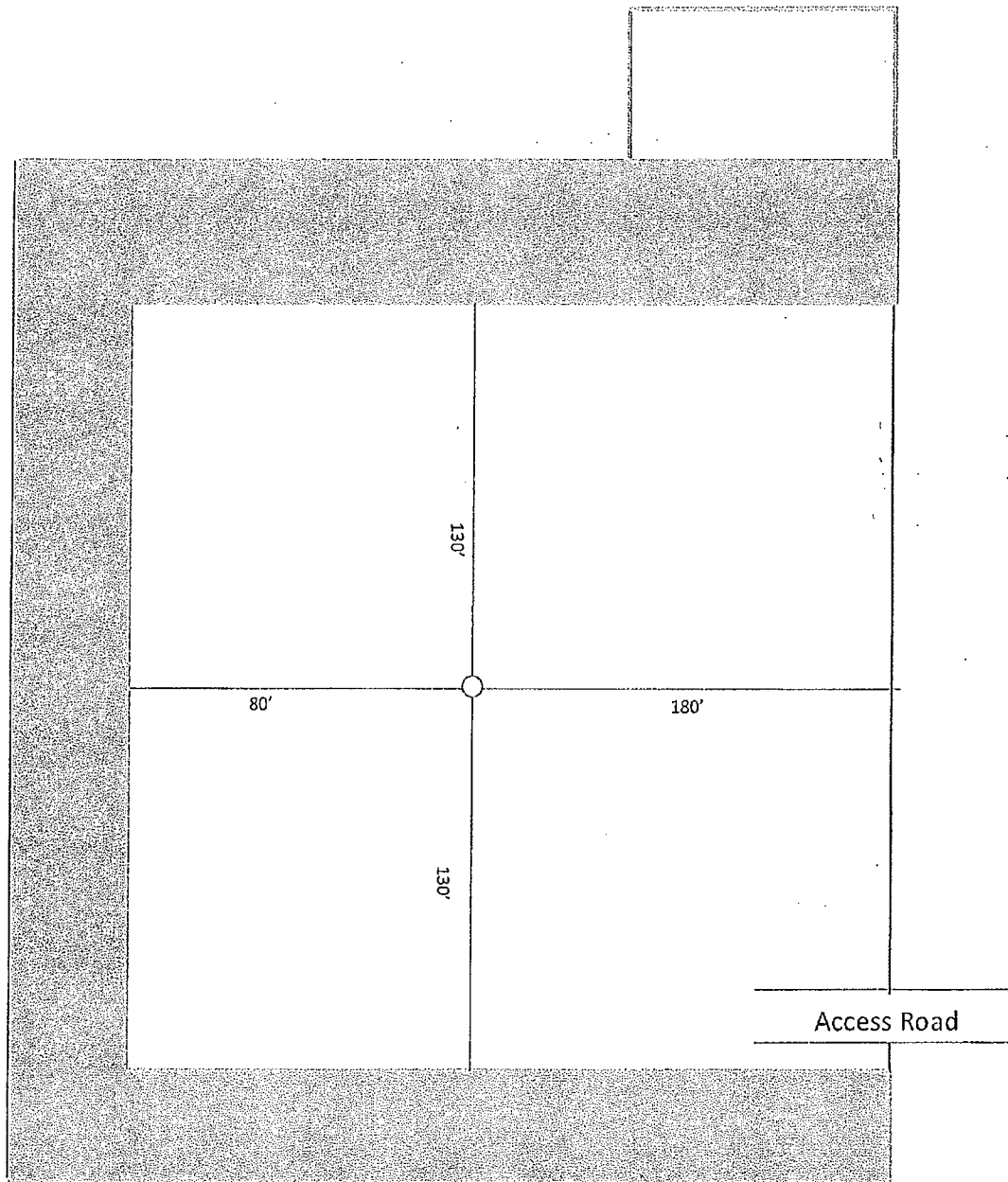


Exhibit D-1
Interim Reclamation Layout Diagram
Hallertau 4 Federal No. 1H
Cimarex Energy Co. of Colorado
4-26S-32E
SHL 330 FNL & 560 FWL
BHL 330 FSL & 350 FWL
Lea County, NM