

RECEIVED
JUL 26 2013
NMOCD ARTESIA

ATS-13-992
TES
8/16/2014

Med. CAVEKARST

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 97126	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Cimarex Energy Co.		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. White City 8 Federal 5H <3124477>	
3b. Phone No. (include area code) 432-571-7800		9. API Well No. 30-015- 41610	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 330 FSL & 660 FEL At proposed prod. Zone 330 FNL & 660 FEL <i>Horizontal Bone Spring test</i>		10. Field and Pool, or Exploratory Bone Spring Wildcat <2150997> WILDCAT G-02 S2527 15A; RS	
14. Distance in miles and direction from nearest town or post office* Approx 10 miles SW of Malaga, NM		11. Sec., T. R. M. or Blk. and Survey or Area 8,25S,27E <998167>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line if any) 330'		12. County or Parish Eddy	
16. No of acres in lease 640 acres		13. State NM	
17. Spacing Unit dedicated to this well 160 acres		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1370' - #4	
19. Proposed Depth 11,792' MD 7,355' TVD		20. BLM/BIA Bond No. on File NM2575; NMB000835	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3243' GR		22. Approximate date work will start* 08.15.13	
		23. Estimated duration 35 days	

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

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor 2. A Drilling Plan 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). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator Certification 6. Such other site specific information and/or plans as may be required by the authorized officer. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

25. Signature <i>Hope Knauls</i>	Name (Printed/Typed) Hope Knauls	Date 06.11.13
Regulatory Compliance		
Approved By (Signature) <i>/s/George MacDonell</i>	Name (Printed/Typed) George MacDonell	Date JUL 22 2013
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.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

**Approval Subject to General Requirements
& Special Stipulations Attached**

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

DISTRICT I
 1025 N. French Dr., Hobbs, NM 88240
 Phone (575) 593-8161 Fax: (575) 593-0720

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

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone (505) 354-6178 Fax: (505) 354-8170

DISTRICT IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505
 Phone (505) 476-3400 Fax: (505) 476-3402

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised August 1, 2011

Submit one copy to appropriate
 District Office

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-41610	Pool Code 97816	Well Name WILDCAT 6-02 32527.15N; 85. Wildcat Bone Spring
Property Code 312447	Property Name WHITE CITY "8" FEDERAL	Well Number 5H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3243'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	8	25 S	27 E		330	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	8	25 S	27 E		330	NORTH	660	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N: 419012.2 E: 576114.5	N: 419013.8 E: 578752.2	N: 419014.3 E: 581389.0	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Hope Knauls</i> 6/10/13 Signature Date</p> <p>Hope Knauls Printed Name</p> <p>Hknauls@cimarex.com Email Address</p>
N: 416362.0 E: 576125.4	N: 416363.9 E: 581401.7	N: 416363.9 E: 581401.7	
N: 413715.0 E: 576135.8	N: 413713.1 E: 578776.2	N: 413713.2 E: 581415.6	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p><i>Gary L. Jones</i> Date Surveyed</p> <p><i>Gary L. Jones</i> Signature & Seal of Professional Surveyor 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS 28630</p>

PROPOSED BOTTOM HOLE LOCATION
 Lat - N 32°09'03.51"
 Long - W 104°12'21.75"
 NMSPC - N 418684.3
 E 580730.7
 (NAD-83)

SURFACE LOCATION
 Lat - N 32°08'17.58"
 Long - W 104°12'21.55"
 NMSPC - N 414043.1
 E 580753.9
 (NAD-83)

Diagram labels: B.H.O., S.L.O., 330', 660', 4642.3', 3257.1', 3244.2', 330'

Operator Certification Statement

White City 8 Federal 5H

Cimarex Energy Co.

UL: P, Sec. 8, 25S, 27E

Eddy Co., NM

Operator's Representative

Cimarex Energy Co. of Colorado

600 N. Marienfeld St., Ste. 600

Midland, TX 79701

Office Phone: (432) 571-7800

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 11th day of June, 2013

NAME: Hope Knauls
Hope Knauls

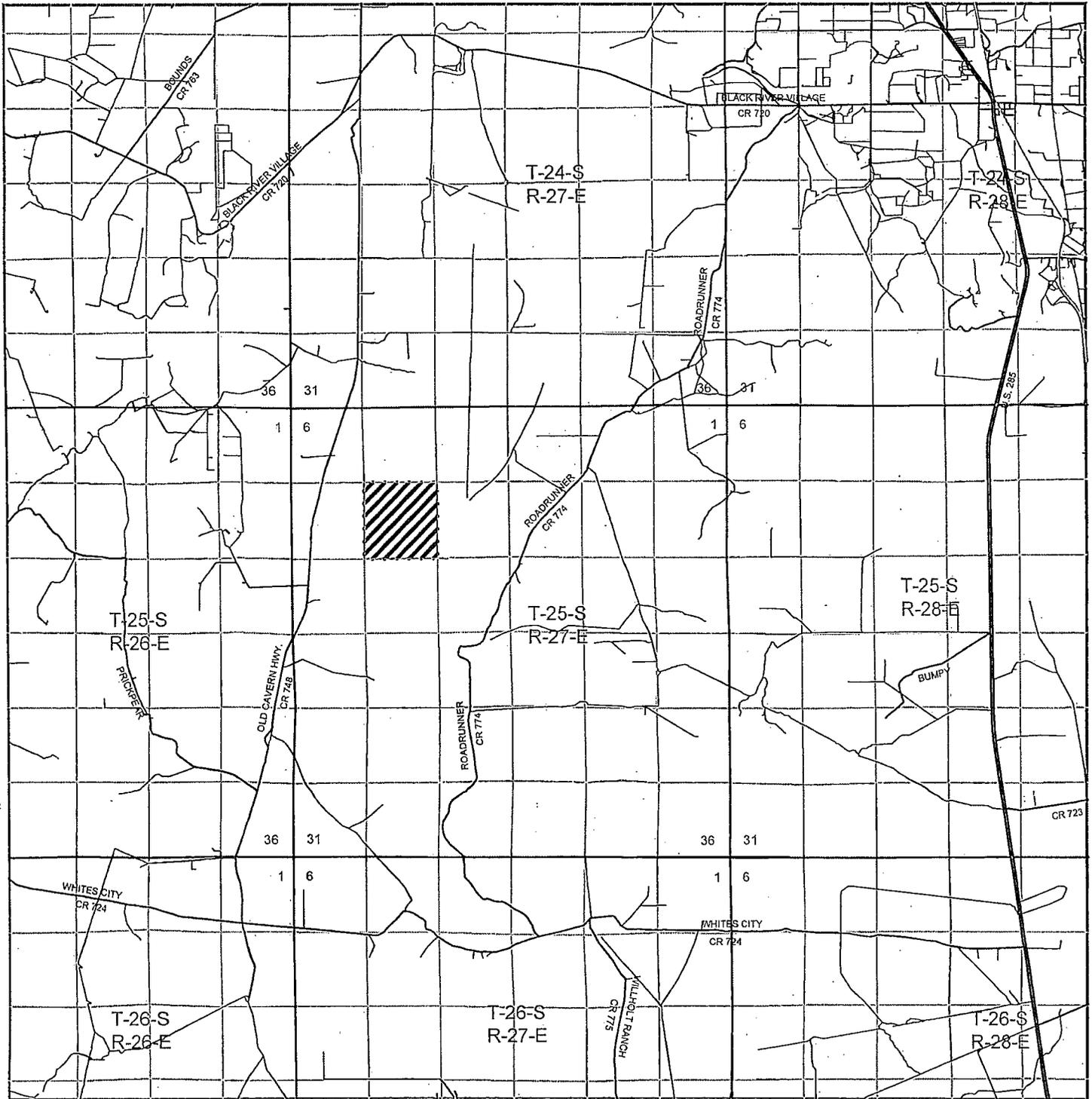
TITLE: Regulatory Compliance

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

TELEPHONE: 918-295-1799

EMAIL: hknauls@cimarex.com

Field Representative: Same as above



WHITE CITY "8" FEDERAL #5H
 Located 330' FSL and 660' FEL
 Section 8, Township 25 South, Range 27 East,
 N.M.P.M., Eddy County, New Mexico.

basin surveys
 focused on excellence
 in the oilfield

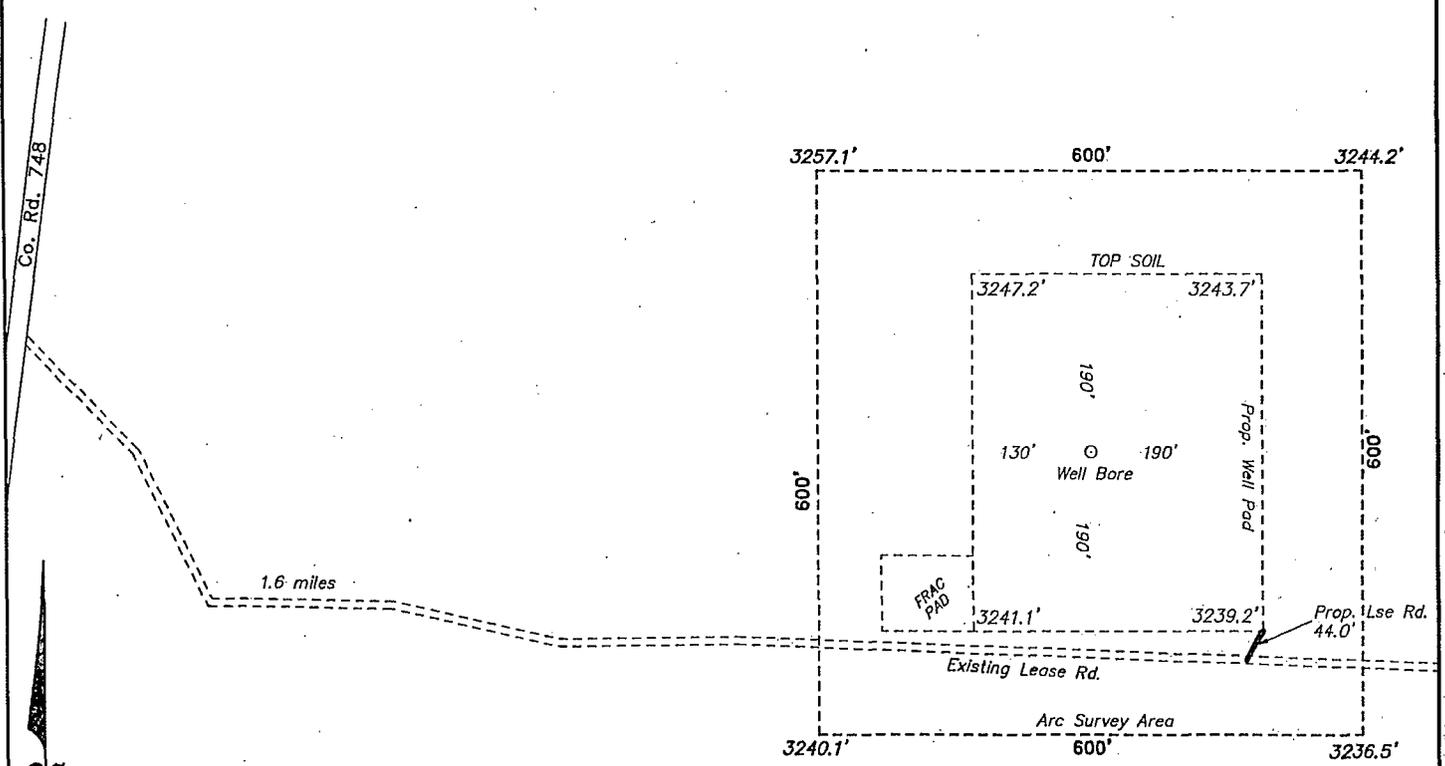
P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number:	KJG - 28630
Survey Date:	05-01-2013
Scale:	1" = 2 Miles
Date:	05-14-2013

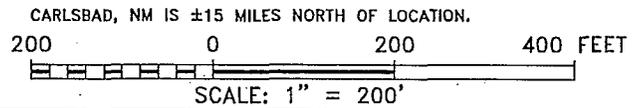
**CIMAREX
 ENERGY CO.**

Exhibit B

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 27 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



CIMAREX ENERGY CO.
 WHITE CITY "8" FED. #5H
 ELEV. - 3243'
 Lat - N 32°08'17.58"
 Long - W 104°12'21.55"
 NMSPC- N 414043.1
 E 580753.9
 (NAD-83)



Directions to Location:

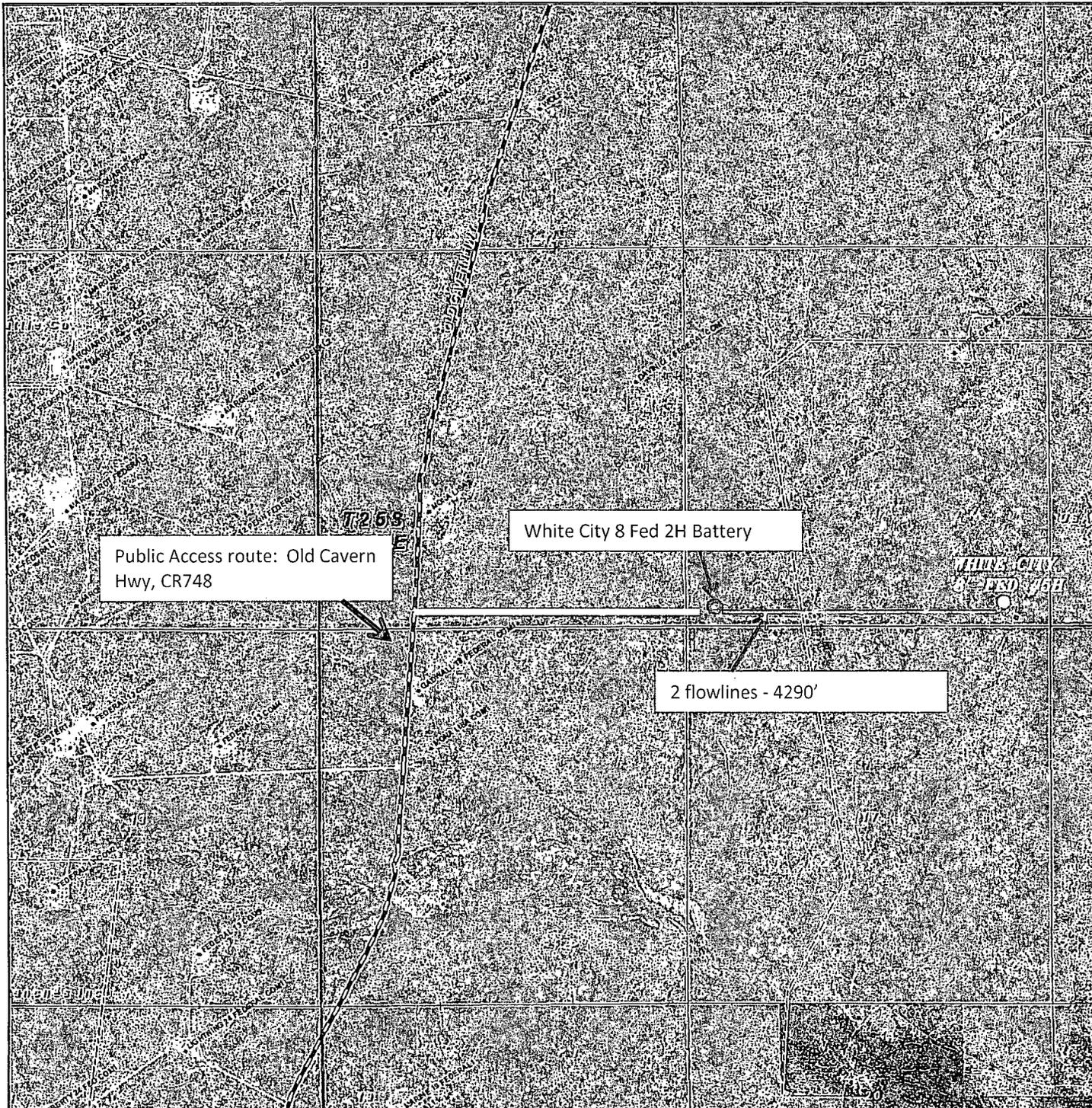
FROM THE JUNCTION OF CO. RD. 748(OLD CAVERN HWY) AND CO. RD. 720(BLACK RIVER VILLAGE HWY), GO SOUTH ON OLD CAVERN HWY FOR APPROX. 6.0 MILES TO LEASE ROAD, THEN EASTERLY ON LEASE ROAD FOR ±1.6 MILE TO PROPOSED LEASE ROAD.

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

W.O. Number: 28630 Drawn By: K. GOAD

Date: 05-14-2013 Disk: KJG - 28630WELL

CIMAREX ENERGY CO.	
REF: WHITE CITY "8" FEDERAL #5H / WELL PAD TOPO	
THE WHITE CITY "8" FEDERAL #5H LOCATED 330'	
FROM THE SOUTH LINE AND 660' FROM THE EAST LINE OF	
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 27 EAST,	
N.M.P.M., EDDY COUNTY, NEW MEXICO.	
Survey Date: 05-01-2013	Sheet 1 of 1 Sheets



WHITE CITY "8" FEDERAL #5H
 Located 330' FSL and 660' FEL
 Section 8, Township 25 South, Range 27 East,
 N.M.P.M., Eddy County, New Mexico.

— Flowline
 Existing Road



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

W.O. Number: KJG - 28630

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

**CIMAREX
 ENERGY CO.**

Application to Drill
White City 8 Federal 5H
 Cimarex Energy Co.
 UL: P, Sec. 8, 25S, 27E
 Eddy Co., 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 FSL & 660 FEL
 BHL 330 FNL & 660 FEL
- 2 Elevation above sea level: 3243' 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: 11,792' MD 7,355' TVD
- 6 Estimated tops of geological markers:

Formation	Est. Top	Bearing
Castille	425	NA
Top of Salt	1259	NA
Base of Salt	1874	NA
Delaware	2077	Hydrocarbons
Cherry Canyon	3030	NA
Brushy Canyon	4071	NA
Brushy Canyon Lower	5294	NA
Bone Spring	5588	Hydrocarbons
Bone Spring A Shale	5711	Hydrocarbons
Bone Spring C Shale	5986	Hydrocarbons
1st Bone Spring Ss	6537	Hydrocarbons
2nd Bone Spring Ss	7075	Hydrocarbons
2nd Bs Ss Horz Target	7355	Hydrocarbons
3rd Bone Spring Limestone	7450	Hydrocarbons
Lwe 2nd Bone Spring Ss	7784	Hydrocarbons
Base Lwr 2nd Bone SS	8001	Hydrocarbons

- 7 Possible mineral bearing formation:
Shown above
- 7A OSE Ground Water estimated depth: 20'

8 Casing Program:

Casing Depth From (ft)	Casing Setting Depth(ft) MD	Casing Setting Depth(ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Conditon	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF (1.125)	Burst SF (1.125)	Cumulative Air Weight (lbs)	Cumulative Bouyed Weight (lbs)	Bouyant Tension SF (1.8)
Surface															
0'	450'	450'	17 1/2	13 3/8	48	H-40	ST&C	New	203	8.4	3.76	8.54	21,600	18,830	17.10
Intermediate															
0'	2047'	2047'	12 1/4	9 5/8	36	J-55	LT&C	New	921	10.2	1.86	3.82	73,692	62,216	9.07
Production															
0'	6877'	6877'	8 3/4	5 1/2	17	P-110	LT&C	New	1,692	9.2	2.27	6.29	125,035	107,473	4.14
6877'	11792'	7355'	8 3/4	5 1/2	17	P-110	BT&C	New	3,310	9.2	2.13	3.21	8,126	6,985	78.17

Casing Design Criteria and Casing Loading Assumptions:

- Surface
 Tension A 1.8 design factor with effects of buoyancy. 8.4 ppg
 Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 8.4 ppg mud gradient
 Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
- Intermediate
 Tension A 1.8 design factor with effects of buoyancy. 10.2 ppg
 Collapse A 1.125 design factor evacuated 1/3 TVD of next casing string with a collapse force equal to a 10.2 ppg mud gradient
 Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.
- Production
 Tension A 1.8 design factor with effects of buoyancy. 9.2 ppg
 Collapse A 1.125 design factor with full internal evacuation and a collapse force equal to a 9.2 ppg mud gradient
 Burst A 1.125 design with a surface pressure equal to the fracture gradient at setting depth less gas gradient to surface.

Drilling Plan
White, City 8 Federal 5H
 Cimarex Energy Co.
 UL: P, Sec. 8, 25S, 27E
 Eddy Co., NM

9 Cementing Program:

<i>Surface</i>	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	120	1.75	13.5	208	Class C + Bentonite + Calcium Chloride + LCM
Tail	200	1.34	14.8	261	Class C + LCM
TOC: 0' 50% Excess Centralizers per Onshore Order 2.III.B.1f					

<i>Intermediate</i>	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	460	1.88	12.9	861	35:65 (poz/C) + Salt + Bentonite + LCM + retarder
Tail	140	1.34	14.8	175	Class C + retarder + LCM
TOC: 0' 79% Excess					

<i>Production</i>	Sacks	Yield (cuft/sx)	Weight (ppg)	Cubic Feet	Cement Blend
Lead	612	2.4	11.9	1469	35:65 (poz/H) + salt + Sodium Metasilicate + Bentonite + Fluid Loss + Dispersant + LCM + Retarder
Tail	1399	1.24	14.5	1734	50:50 (poz/H) + Bentonite + Salt + Fluid Loss + Dispersant + LCM + Retarder

*See
CDA*

Cement volumes will be adjusted depending on hole size.

TOC: 1547' 25% 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.

10 Pressure Control Equipment:

Exhibit "E-1". A 13 1/2" 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 2500 psi high on the surface and intermediate casings.

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 (please see Exhibit F, F-1, F-2, F-3). 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.

Application to Drill
White City 8 Federal 5H
 Cimarex Energy Co.
 UL: P, Sec. 8, 25S, 27E
 Eddy Co., NM

11 Proposed Mud Circulating System:

Depth		Mud Wt	Visc	Fluid Loss	Type Mud
0'	to 450'	8.4	28	NC	FW Spud Mud
450'	to 2047'	10.2	30-32	NC	Brine water
2047'	to 11792'	9.2	30-32	NC	FW/Cut 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.

The Mud Monitoring System is an electronic Pason System satisfying requirements of Onshore Order 1.

12 Proposed Drilling Plan

Pilot Hole TD: No Pilot Hole KOP: 6,877' EOC: 7628'

Set Surface and Intermediate casing strings. Drill production hole to KOP. Continue drilling lateral through the curve to TD. Run prod casing & cement.

13 Testing, Logging and Coring Program:

- A. Mud logging program: 2 man unit from 2047' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / GR -- Inter. Csg to TD
CNL / GR -- Surf to Inter. Csg
- C. No DSTs or cores are planned at this time.
- D. CBL w/ CCL from as far as gravity will let it fall to TOC

14 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 **3310 psi** Estimated BHT **140°**

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

Drilling expected to take : **35 days**

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

16 Other Facets of Operations:

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

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potentialied as **Oil**



Cimarex

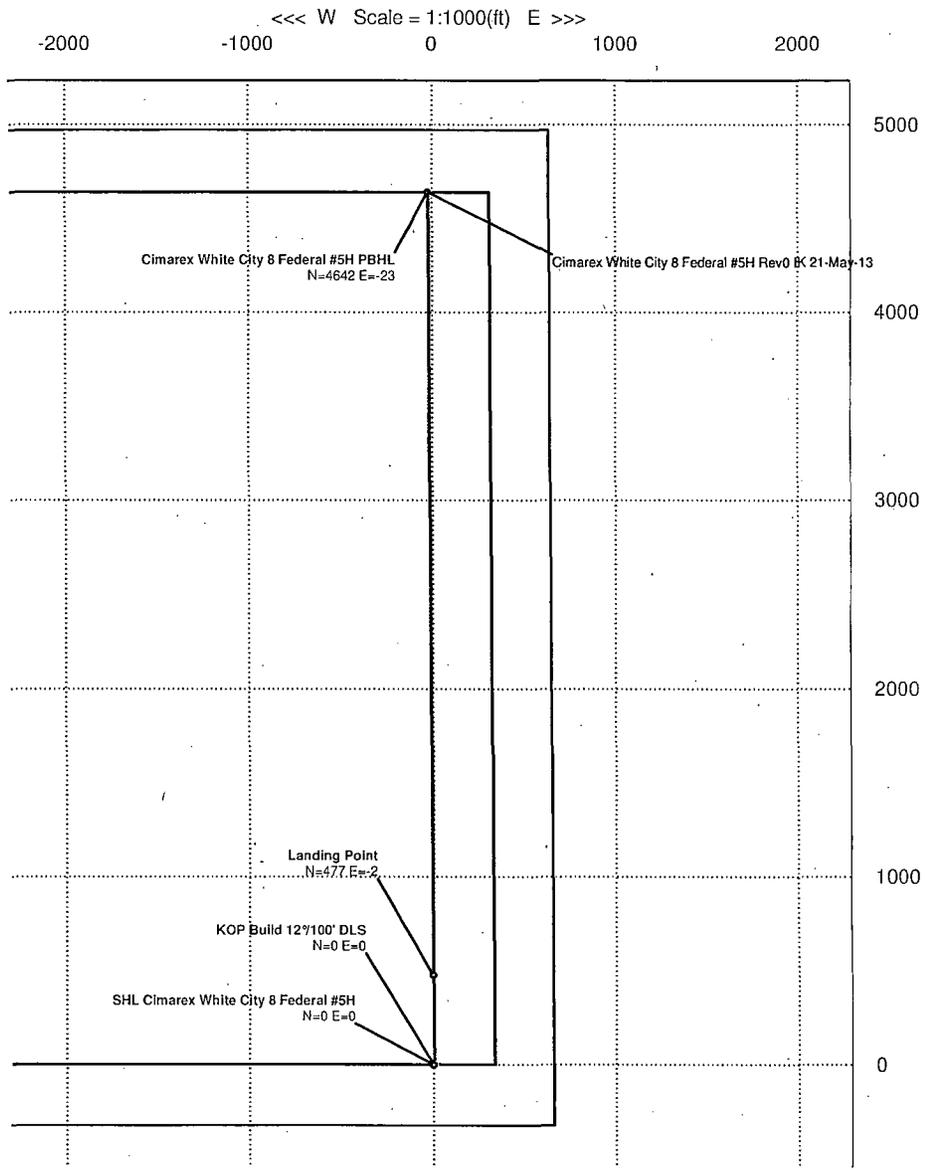


WELL	White City 8 Federal #5H	FIELD	NM Eddy County	STRUCTURE	TBD
------	--------------------------	-------	----------------	-----------	-----

Magnetic Parameters	Dip: 59.900° Model: BGGM 2012	Date: May 21, 2013 FS: 48257.5mT	Surface Location	NA083 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 8 17.589 Lon: W 104 12 21.555	Northing: 414043.10 AUS Easting: 580733.90 AUS	Grid Conv: 0.068° Scale Fact: 0.99991097	Miscellaneous	Slot: White City 8 Federal #5H Plan: Rev0 IK 21-May-13	TVD Ref: Unknown(3243ft above) Srvy Date: May 21, 2013
---------------------	----------------------------------	-------------------------------------	------------------	---------------------------------------------------------------------------------------------------	---------------------------------------------------	---------------------------------------------	---------------	-----------------------------------------------------------	-----------------------------------------------------------

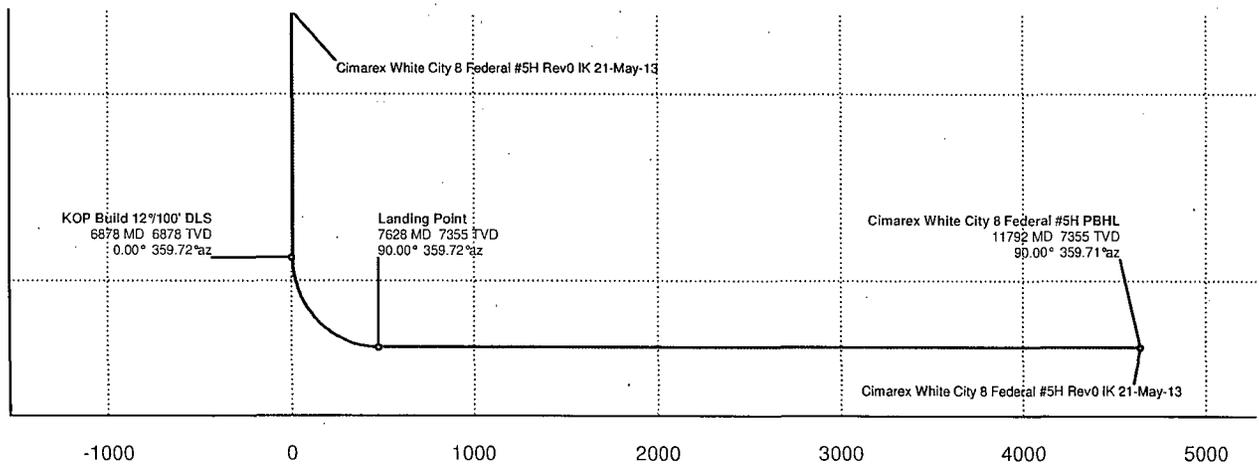


Grid North
 Tot Corr (M->G 7.6706°)
 Mag Dec (7.738°)
 Grid Conv (0.068°)



Scale = 1:1000(ft) N

TVD Scale = 1:1000(ft)



Vertical Section (ft) Azim = 359.71° Scale = 1:1000(ft) Origin = 0 N/-S, 0 E/-W

Critical Points



Cimarex White City 8 Federal #4H Rev0 IK 21-May-13 Proposal Report



(Non-Def Plan)

Report Date: May 23, 2013 - 10:26 AM
 Client: Cimarex
 Field: NM-Eddy County (NAD 83)
 Structure / Slot: TBD / Cimarex White City 8 Federal #4H
 Well: Cimarex White City 8 Federal #4H
 Borehole: Cimarex White City 8 Federal #4H
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex White City 8 Federal #4H Rev0 IK 21-May-13
 Survey Date: May 21, 2013
 Tort / AHD / DDI / ERD Ratio: 90.001 ° / 4641.600 ft / 5.826 / 0.631
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 8' 17.60374", W 104° 12' 37.48418"
 Location Grid N/E Y/X: N 414043.000 ftUS, E 579384.300 ftUS
 CRS Grid Convergence Angle: 0.0654 °
 Grid Scale Factor: 0.99991075

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.330 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Unknown
 TVD Reference Elevation: 3235.000 ft above
 Seabed / Ground Elevation: 3235.000 ft above
 Magnetic Declination: 7.740 °
 Total Gravity Field Strength: 998.4964mgn (9.80665 Based)
 Total Magnetic Field Strength: 48267.136 nT
 Magnetic Dip Angle: 59.899 °
 Declination Date: May 21, 2013
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.0654 °
 Total Corr Mag North->Grid North: 7.6749 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Cimarex White City 8 Federal #4H	0.00	0.00	0.33	0.00	0.00	0.00	0.00	N/A	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	100.00	0.00	0.33	100.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	200.00	0.00	0.33	200.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	300.00	0.00	0.33	300.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	400.00	0.00	0.33	400.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	500.00	0.00	0.33	500.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	600.00	0.00	0.33	600.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	700.00	0.00	0.33	700.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	800.00	0.00	0.33	800.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	900.00	0.00	0.33	900.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1000.00	0.00	0.33	1000.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1100.00	0.00	0.33	1100.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1200.00	0.00	0.33	1200.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1300.00	0.00	0.33	1300.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1400.00	0.00	0.33	1400.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1500.00	0.00	0.33	1500.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1600.00	0.00	0.33	1600.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1700.00	0.00	0.33	1700.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1800.00	0.00	0.33	1800.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	1900.00	0.00	0.33	1900.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	2000.00	0.00	0.33	2000.00	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (%/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
KOP Build 12°/100° DLS	6877.50	0.00	0.33	6877.50	0.00	0.00	0.00	0.00	414043.00	579384.30	N 32 8 17.60	W 104 12 37.48
	8900.00	2.70	0.33	6899.99	0.53	0.53	0.00	12.00	414043.53	579384.30	N 32 8 17.61	W 104 12 37.48
	7000.00	14.70	0.33	6998.66	15.63	15.63	0.09	12.00	414058.63	579384.39	N 32 8 17.76	W 104 12 37.48
	7100.00	26.70	0.33	7092.04	50.91	50.91	0.29	12.00	414093.90	579384.59	N 32 8 18.11	W 104 12 37.48
	7200.00	38.70	0.33	7176.03	104.83	104.83	0.60	12.00	414147.82	579384.90	N 32 8 18.64	W 104 12 37.48
	7300.00	50.70	0.33	7246.99	175.04	175.03	1.01	12.00	414218.02	579385.31	N 32 8 19.34	W 104 12 37.47
	7400.00	62.70	0.33	7301.80	258.46	258.46	1.49	12.00	414301.43	579385.79	N 32 8 20.16	W 104 12 37.46
	7500.00	74.69	0.33	7338.06	351.46	351.45	2.02	12.00	414394.42	579386.32	N 32 8 21.08	W 104 12 37.46
	7600.00	86.69	0.33	7354.21	449.96	449.95	2.59	12.00	414492.91	579386.89	N 32 8 22.06	W 104 12 37.45
Landing point	7627.56	90.00	0.33	7355.00	477.50	477.49	2.75	12.00	414520.45	579387.05	N 32 8 22.33	W 104 12 37.45
	7700.00	90.00	0.33	7355.00	549.94	549.94	3.17	0.00	414592.89	579387.47	N 32 8 23.05	W 104 12 37.44
	7800.00	90.00	0.33	7355.00	649.94	649.93	3.74	0.00	414692.87	579388.04	N 32 8 24.03	W 104 12 37.43
	7900.00	90.00	0.33	7355.00	749.94	749.93	4.32	0.00	414792.86	579388.62	N 32 8 25.02	W 104 12 37.42
	8000.00	90.00	0.33	7355.00	849.94	849.93	4.89	0.00	414892.85	579389.19	N 32 8 26.01	W 104 12 37.42
	8100.00	90.00	0.33	7355.00	949.94	949.93	5.47	0.00	414992.84	579389.77	N 32 8 27.00	W 104 12 37.41
	8200.00	90.00	0.33	7355.00	1049.94	1049.93	6.04	0.00	415092.83	579390.34	N 32 8 27.99	W 104 12 37.40
	8300.00	90.00	0.33	7355.00	1149.94	1149.93	6.62	0.00	415192.82	579390.92	N 32 8 28.98	W 104 12 37.39
	8400.00	90.00	0.33	7355.00	1249.94	1249.92	7.19	0.00	415292.81	579391.49	N 32 8 29.97	W 104 12 37.38
	8500.00	90.00	0.33	7355.00	1349.94	1349.92	7.77	0.00	415392.80	579392.07	N 32 8 30.96	W 104 12 37.38
	8600.00	90.00	0.33	7355.00	1449.94	1449.92	8.34	0.00	415492.79	579392.64	N 32 8 31.95	W 104 12 37.37
	8700.00	90.00	0.33	7355.00	1549.94	1549.92	8.92	0.00	415592.78	579393.22	N 32 8 32.94	W 104 12 37.36
	8800.00	90.00	0.33	7355.00	1649.94	1649.92	9.49	0.00	415692.77	579393.79	N 32 8 33.93	W 104 12 37.35
	8900.00	90.00	0.33	7355.00	1749.94	1749.92	10.07	0.00	415792.76	579394.37	N 32 8 34.92	W 104 12 37.34
	9000.00	90.00	0.33	7355.00	1849.94	1849.91	10.64	0.00	415892.75	579394.94	N 32 8 35.91	W 104 12 37.34
	9100.00	90.00	0.33	7355.00	1949.94	1949.91	11.22	0.00	415992.73	579395.52	N 32 8 36.90	W 104 12 37.33
	9200.00	90.00	0.33	7355.00	2049.94	2049.91	11.80	0.00	416092.72	579396.09	N 32 8 37.89	W 104 12 37.32
	9300.00	90.00	0.33	7355.00	2149.94	2149.91	12.37	0.00	416192.71	579396.67	N 32 8 38.88	W 104 12 37.31
	9400.00	90.00	0.33	7355.00	2249.94	2249.91	12.95	0.00	416292.70	579397.24	N 32 8 39.87	W 104 12 37.30
	9500.00	90.00	0.33	7355.00	2349.94	2349.91	13.52	0.00	416392.69	579397.82	N 32 8 40.86	W 104 12 37.30
	9600.00	90.00	0.33	7355.00	2449.94	2449.90	14.10	0.00	416492.68	579398.39	N 32 8 41.85	W 104 12 37.29
	9700.00	90.00	0.33	7355.00	2549.94	2549.90	14.67	0.00	416592.67	579398.97	N 32 8 42.84	W 104 12 37.28
	9800.00	90.00	0.33	7355.00	2649.94	2649.90	15.25	0.00	416692.66	579399.54	N 32 8 43.83	W 104 12 37.27
	9900.00	90.00	0.33	7355.00	2749.94	2749.90	15.82	0.00	416792.65	579400.12	N 32 8 44.81	W 104 12 37.26
	10000.00	90.00	0.33	7355.00	2849.94	2849.90	16.40	0.00	416892.64	579400.70	N 32 8 45.80	W 104 12 37.26
	10100.00	90.00	0.33	7355.00	2949.94	2949.90	16.97	0.00	416992.63	579401.27	N 32 8 46.79	W 104 12 37.25
	10200.00	90.00	0.33	7355.00	3049.94	3049.89	17.55	0.00	417092.62	579401.85	N 32 8 47.78	W 104 12 37.24
	10300.00	90.00	0.33	7355.00	3149.94	3149.89	18.12	0.00	417192.61	579402.42	N 32 8 48.77	W 104 12 37.23
	10400.00	90.00	0.33	7355.00	3249.94	3249.89	18.70	0.00	417292.59	579403.00	N 32 8 49.76	W 104 12 37.22
	10500.00	90.00	0.33	7355.00	3349.94	3349.89	19.27	0.00	417392.58	579403.57	N 32 8 50.75	W 104 12 37.22
	10600.00	90.00	0.33	7355.00	3449.94	3449.89	19.85	0.00	417492.57	579404.15	N 32 8 51.74	W 104 12 37.21
	10700.00	90.00	0.33	7355.00	3549.94	3549.89	20.42	0.00	417592.56	579404.72	N 32 8 52.73	W 104 12 37.20
	10800.00	90.00	0.33	7355.00	3649.94	3649.88	21.00	0.00	417692.55	579405.30	N 32 8 53.72	W 104 12 37.19
	10900.00	90.00	0.33	7355.00	3749.94	3749.88	21.57	0.00	417792.54	579405.87	N 32 8 54.71	W 104 12 37.18
	11000.00	90.00	0.33	7355.00	3849.94	3849.88	22.15	0.00	417892.53	579406.45	N 32 8 55.70	W 104 12 37.18
	11100.00	90.00	0.33	7355.00	3949.94	3949.88	22.72	0.00	417992.52	579407.02	N 32 8 56.69	W 104 12 37.17
	11200.00	90.00	0.33	7355.00	4049.94	4049.88	23.30	0.00	418092.51	579407.60	N 32 8 57.68	W 104 12 37.16
	11300.00	90.00	0.33	7355.00	4149.94	4149.88	23.87	0.00	418192.50	579408.17	N 32 8 58.67	W 104 12 37.15

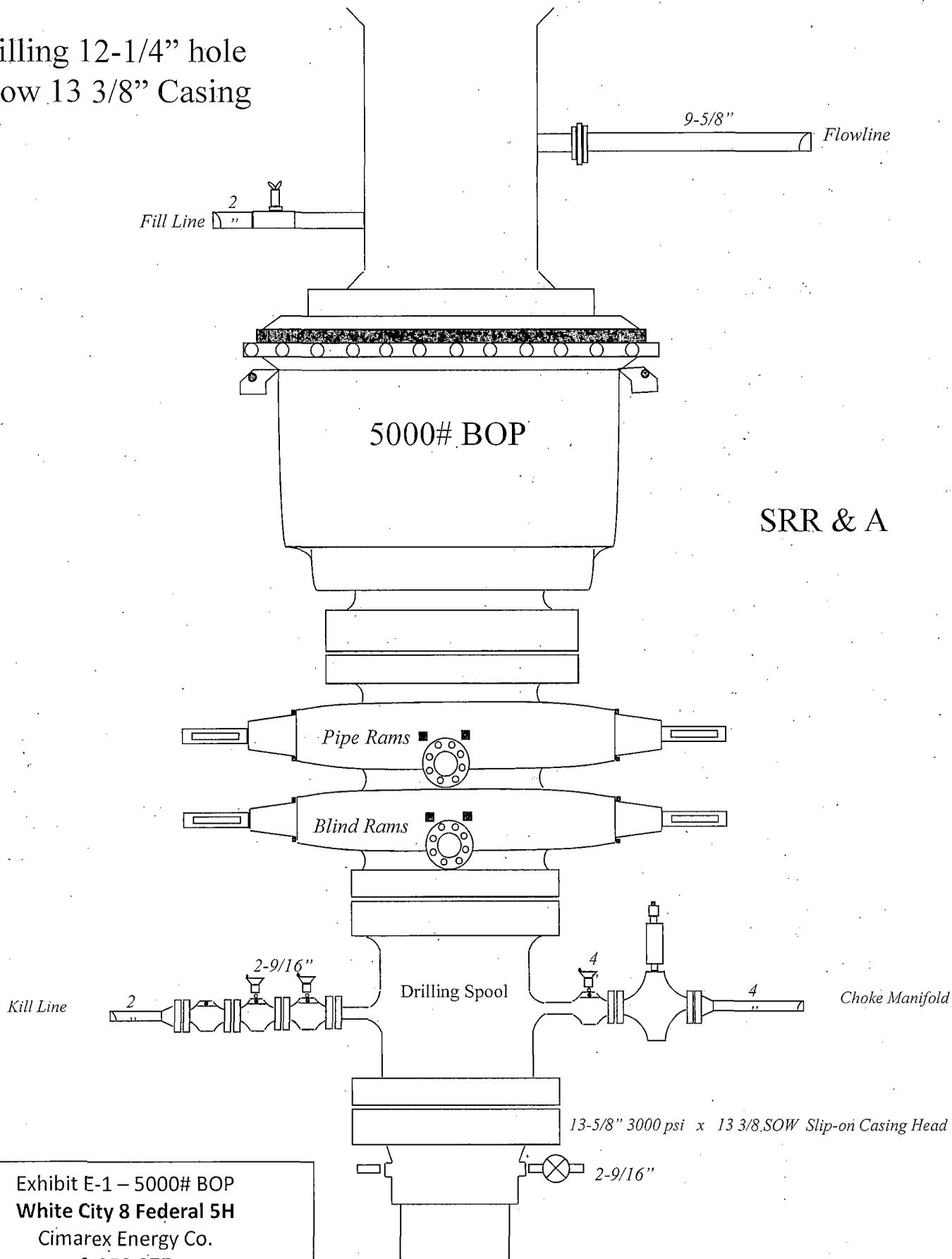
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	11400.00	90.00	0.33	7355.00	4249.94	4249.87	24.45	0.00	418292.49	579408.75	N 32 8 59.66	W 104 12 37.14
	11500.00	90.00	0.33	7355.00	4349.94	4349.87	25.02	0.00	418392.48	579409.32	N 32 9 0.65	W 104 12 37.14
	11600.00	90.00	0.33	7355.00	4449.94	4449.87	25.60	0.00	418492.47	579409.90	N 32 9 1.64	W 104 12 37.13
	11700.00	90.00	0.33	7355.00	4549.94	4549.87	26.18	0.00	418592.45	579410.47	N 32 9 2.63	W 104 12 37.12
Cimarex White City 8 Federal #4H PBHL	11791.66	90.00	0.33	7355.00	4641.60	4641.52	26.70	0.00	418684.10	579411.00	N 32 9 3.53	W 104 12 37.11

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	11791.656	1/100.000	30.000	30.000	SLB_MWD-STD	Cimarex White City 8 Federal #4H / Cimarex White City 8

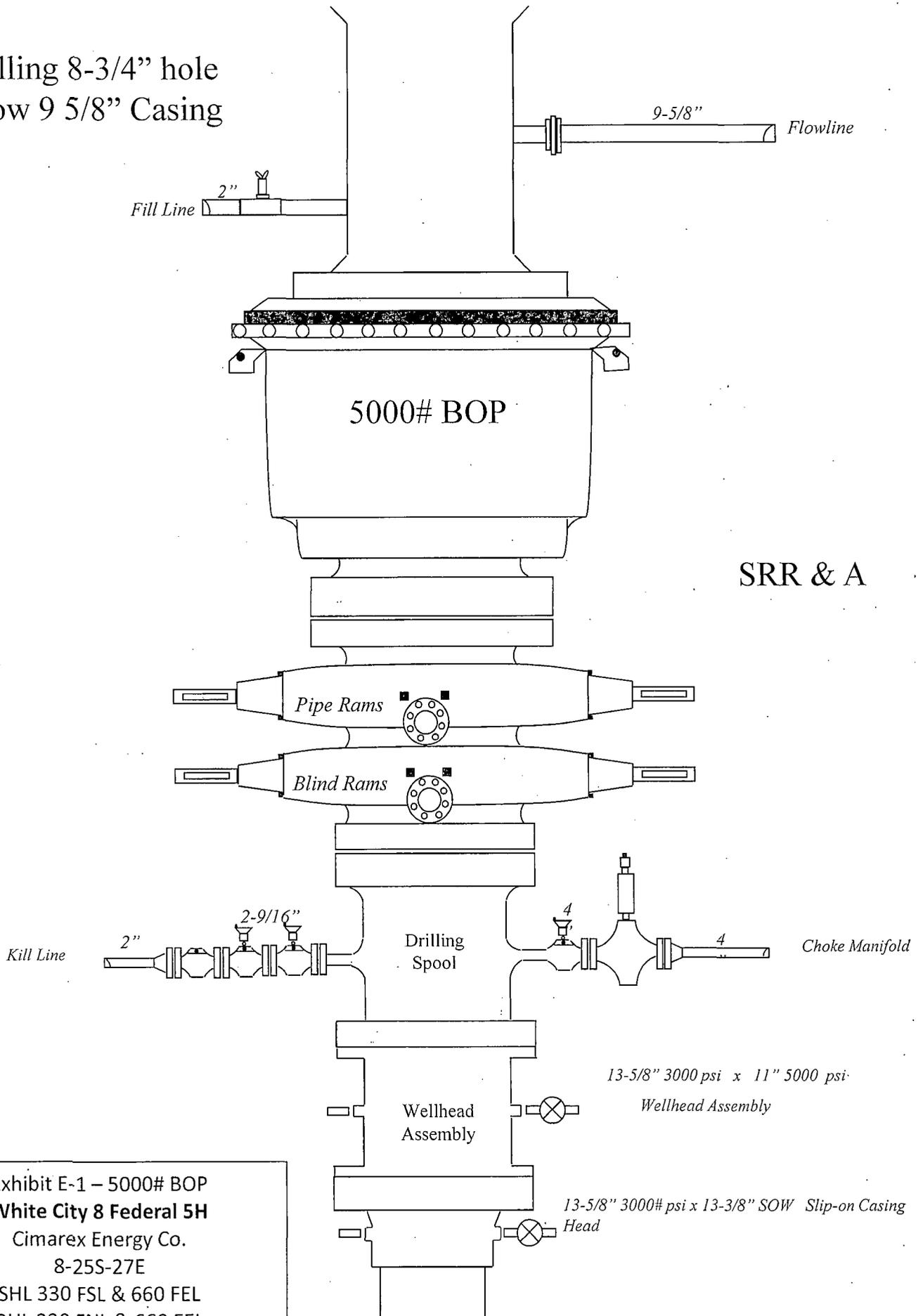
Drilling 12-1/4" hole
below 13 3/8" Casing



SRR & A

Exhibit E-1 – 5000# BOP
White City 8 Federal 5H
Cimarex Energy Co.
8-25S-27E
SHL 330 FSL & 660 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM

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



SRR & A

Exhibit E-1 – 5000# BOP
White City 8 Federal 5H
 Cimarex Energy Co.
 8-25S-27E
 SHL 330 FSL & 660 FEL
 BHL 330 FNL & 660 FEL
 Eddy County, NM



Midwest Hose
& Specialty, Inc.

Exhibit F -3- Co-Flex Hose
White City 8 Federal 5H
Cimarex Energy Co.
8-25S-27E
SHL 330 FSL & 660 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM

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)

Exhibit F-1 – Co-Flex Hose Hydrostatic Test

White City 8 Federal 5H

Cimarex Energy Co.

8-25S-27E

SHL 330 FSL & 660 FEL

BHL 330 FNL & 660 FEL

Eddy 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. Jimenez</i>	Approved: <i>[Signature]</i>

Exhibit F-2 – Co-Flex Hose
White City 8 Federal 5H
Cimarex Energy Co.
8-25S-27E
SHL 330 FSL & 660 FEL
BHL 330 FNL & 660 FEL
Eddy County, NM



Midwest Hose & Specialty, Inc.

Certificate of Conformity

Customer:		PO	
DEM		ODYD-271	
SPECIFICATIONS			
Sales Order		Dated:	
79793		3/8/2011	
<p>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</p> <p>Supplier: Midwest Hose & Specialty, Inc. 10640 Tanner Road Houston, Texas 77041</p>			
Comments:			
Approved:		Date:	
<i>Jamal Garcia</i>		3/8/2011	

Exhibit F-1 – Co-Flex Hose Hydrostatic Test
White City 8 Federal 5H
 Cimarex Energy Co.
 8-25S-27E
 SHL 330 FSL & 660 FEL
 BHL 330 FNL & 660 FEL
 Eddy County, NM



Midwest Hose
& Specialty, Inc.

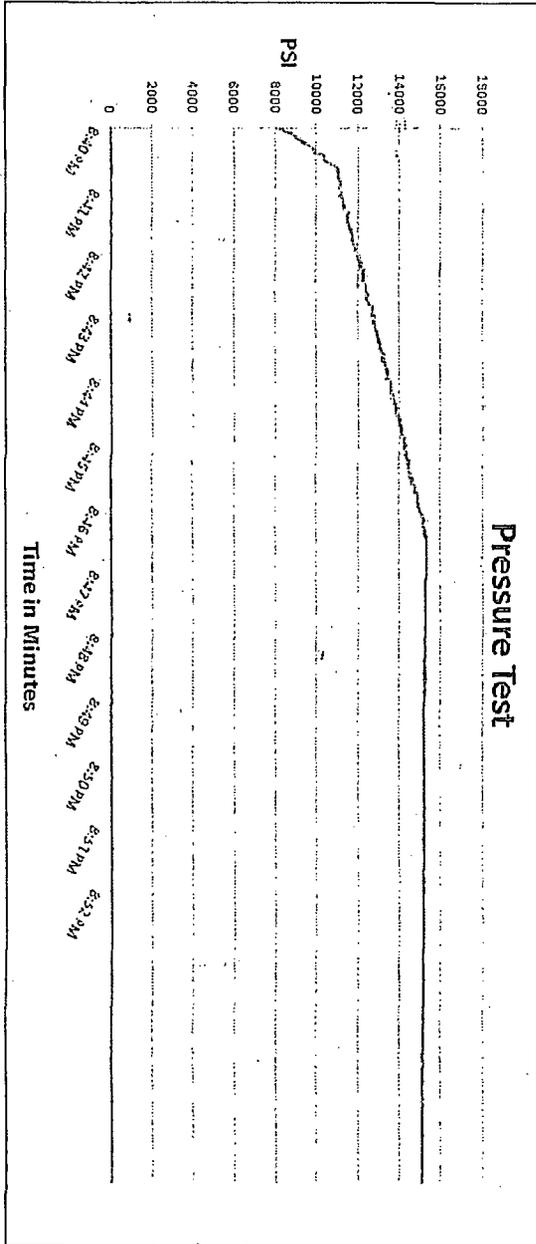
Internal Hydrostatic Test Graph

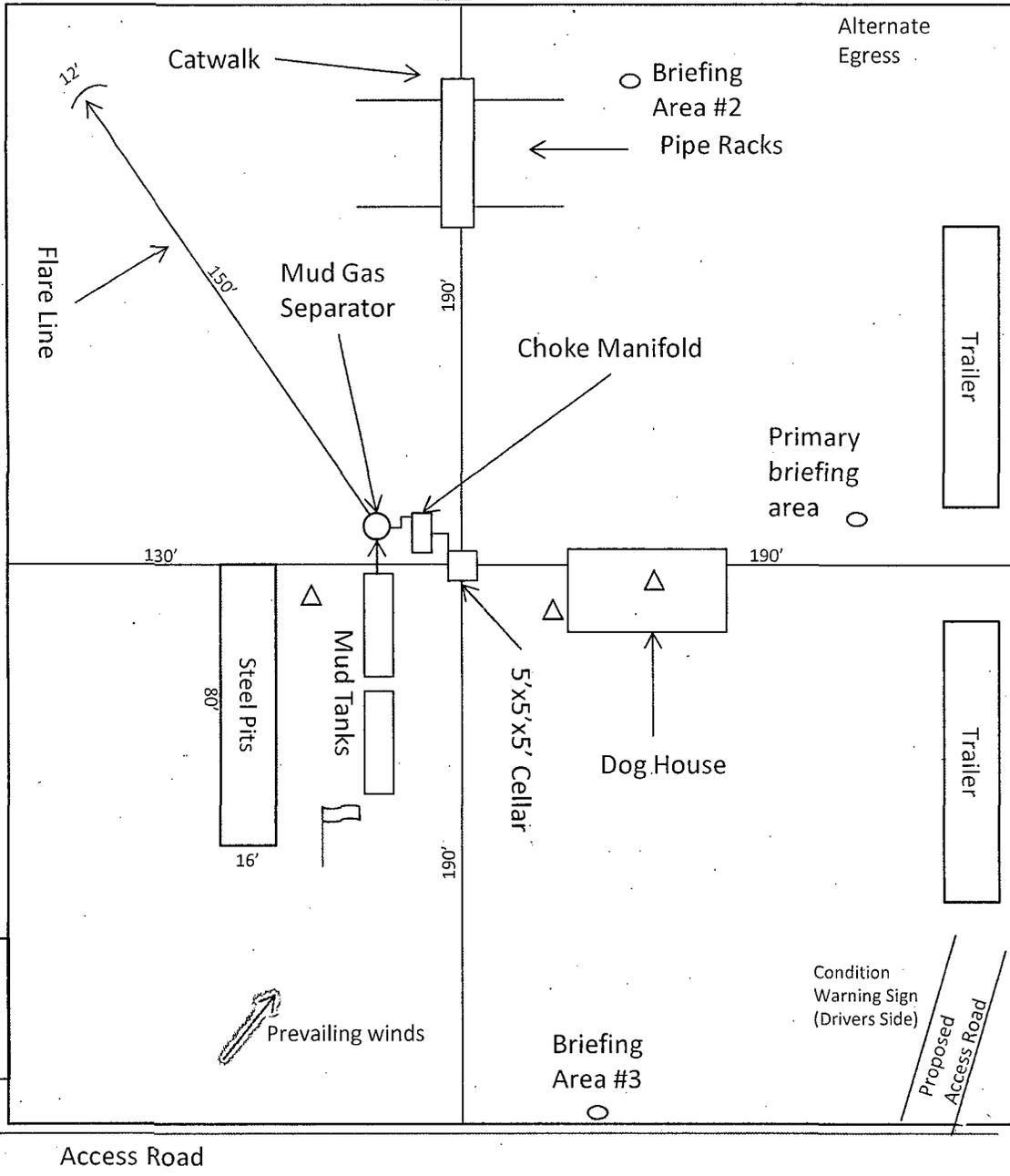
Customer: Houston

Pick Ticket #: 94260

March 3, 2011

Hose Specifications		Verification	
Hose Type	C&K	Length	45'
I.D.	4"	O.D.	6.09"
Working Pressure	10000 PSI	Burst Pressure	Standard Specification Applies
Type of Fittings	41/1610K	Diastize	6.38"
Diastize	6.38"	Hose Serial #	5544
Coupling Method	SWAGE	Hose Assembly Serial #	79793
End O.D.	6.25"		





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



Exhibit D – Rig Diagram
White City 8 Federal 5H
 Cimarex Energy Co.
 8-255-27E
 SHL 330 FSL & 660 FEL
 BHL 330 FNL & 660 FEL
 Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan

White City 8 Federal 5H

Cimarex Energy Co.

UL: P, Sec. 8, 25S, 27E

Eddy Co., 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. Principal and operation of H₂S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.

- 2 H₂S Detection and Alarm Systems:
 - A. H₂S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H₂S detectors may play placed as deemed necessary.
 - B. An audio alarm system will be installed on the derrick floor and in the top doghouse.

- 3 Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock on the rig floor and / or top doghouse 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 H₂S trained and certified personnel admitted to location.

- 5 Well control equipment:
 - A. See exhibit "E-1"

- 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
White City 8 Federal 5H
Cimarex Energy Co.
UL: P, Sec. 8, 25S, 27E
Eddy Co., 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

White City 8 Federal 5H

Cimarex Energy Co.

UL: P, Sec. 8, 25S, 27E

Eddy Co., NM

Company Office

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

Key Personnel

Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8485
Doug McQuitty	Drilling Superintendent	432-620-1933	806-640-2605
Scott Lucas	Drilling Superintendent	432-620-1989	432-894-5572
Conner Cromeens	Construction Foreman		432-270-0313
Roy Shirley	Construction 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
-------------------------------------------------------	--------------

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		

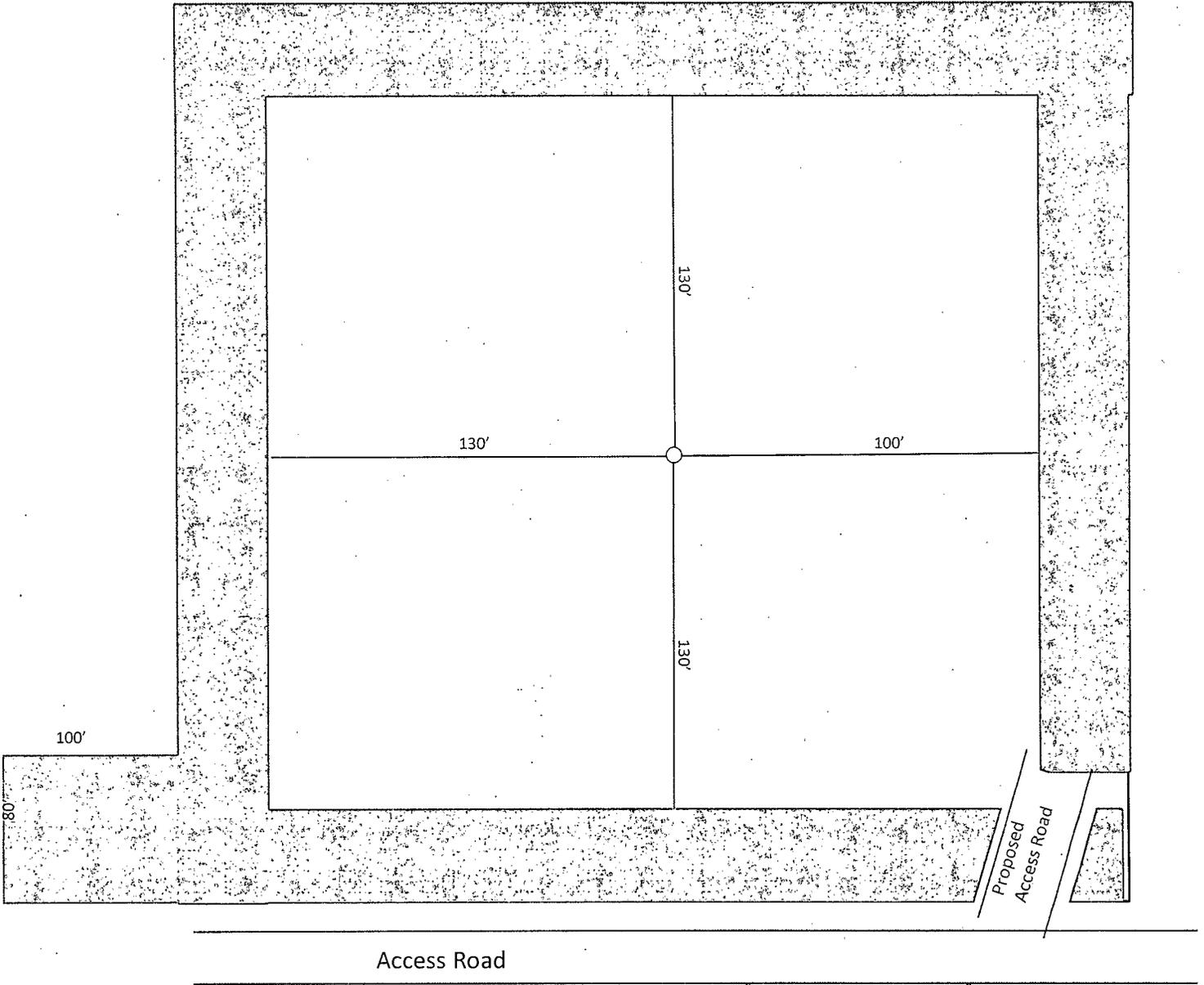
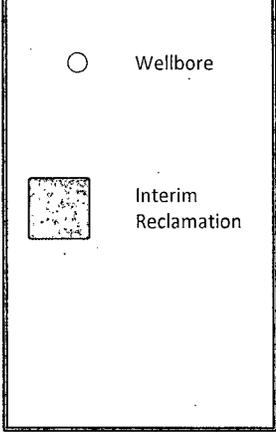


Exhibit D-1
 Interim Reclamation Diagram
White City 8 Federal 5H
 Cimarex Energy Co.
 8-25S-27E
 SHL 330 FSL & 660 FEL
 BHL 330 FNL & 660 FEL
 Eddy County, NM



Surface Use Plan of Operations
White City 8 Federal 5H
Cimarex Energy Co.
UL: P, Sec. 8, 25S, 27E
Eddy Co., NM

The following surface use plan of operations will be followed and carried out once the APD is approved. No other disturbance will be created other than what is submitted in this surface use plan without approval. If any other disturbance is needed after the APD is approved, a BLM approved sundry notice or right of way application will be submitted for approval prior to any new surface disturbance.

1. Existing Roads:

Area maps: Exhibit "B" - reproduction of Eddy Co. General Highway Map. Exhibit "C" - reproduction of a USGS Topographic Map. Exhibit "C-1" - well site layout map. Exhibits "C," "C-1" - existing roads map.

- A. The maximum width of the driving surface will be 15'. 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. Existing access road route to the proposed project is depicted on the public access point map if applicable. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of the surface use plan.
 1. Driving Directions: From the Junction of CR 748 (Old Cavern Hwy) and CR 720 (Black River Village Hwy) go south on CR 748 for approx 6 miles to lease road. Then easterly on lease road for 1.6 miles to proposed lease road.
- C. If existing roads are used, the operator will improve or maintain existing roads in a condition the same as or better than before the operations began. The operator will repair pot holes, etc. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- D. The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

2. New or Reconstructed Access Roads:

A new road will be constructed for this project.

- A. Cimarex Energy plans to construct 44' of new on-lease access road to service the well. The planned access road does not cross lease boundaries, a right of way grant will not be acquired from the BLM.
- B. The maximum width of the driving surface will be 15'. 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.
- C. New access road route to the proposed project is depicted on the public access point map and Exhibit C-1. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done without prior approval from the BLM.
- D. The operator will prevent and abate fugitive dust as needed, whether created by vehicular traffic, equipment operations, or other events.

3. Planned Electric Line:

No new electric lines are planned.

4. 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 Exhibits "A". |
| E. Abandoned wells - | As shown on Exhibits "A" |

5. Location of Existing or Proposed Production Facilities:

If on completion this well is a producer, a tank battery will be used and the necessary production will be installed at the White City 8 Federal 2H battery. Cimarex Energy proposes to install two 4 inch buried HP polylines down existing lease road to the White City 8 Federal 2H battery.

Specifications of Polyline: 1 HP polyline for oil, gas, and water production. 1 HP polyline for gas lift.

Length: 4290'.

MAOP: 1500 psi. Anticipated working pressure: 200-300 psi.

Allocation will be based on well test. Route is within lease boundaries, please see Exhibit G. Any changes to flowline route will be submitted via 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 location.

White City 8 Federal 5H

Cimarex Energy Co.

UL: P, Sec. 8, 25S, 27E

Eddy Co., NM

7. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

8. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- B. Exhibit "C-1", Exhibit "D", and Exhibit "D-1" shows the well pad dimensions, well pad orientation, proposed access road, frac tank farm, and top soil stock pile. Exhibit "C-1" is drawn to scale.
 1. Proposed and existing structures within the 600' X 600' surveyed area.
- C. Mud pits in the closed circulation 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. See Exhibit "D-1".

9. 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 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".

10 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 Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An archaeological survey will be conducted on the location and proposed roads and this report will be filed with the Bureau of Land Management in the Carlsbad BLM office.
- D. There are no known dwellings within 1½ miles of this location.

11. On Site Notes and Information:

On April 30, 2013, A BLM onsite meeting was held with Barry Hunt, Cimarex representative, Legion Brumley with the BLM, Lisa Agden (Lesee), and Basin Surveys. Location fell near a draw. OK where staked. V-Door North. Top soil: North. Interim reclamation: All 4 sides. Frac pad SW corner. Flare NW. Access road from Southeast corner, west, to the 4H.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Co
LEASE NO.:	NM97126
WELL NAME & NO.:	5H White City 8 Federal
SURFACE HOLE FOOTAGE:	330' FSL & 660' FEL
BOTTOM HOLE FOOTAGE:	330' FNL & 660' FEL
LOCATION:	Section 8, T.25 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
- Permit Expiration**
- Archaeology, Paleontology, and Historical Sites**
- Noxious Weeds**
- Special Requirements**
- Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- Road Section Diagram**
- Drilling**
 - Cement Requirements
 - Medium Cave/Karst
 - Logging Requirements
 - Waste Material and Fluids
- Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For

examples of enclosure fencing design, refer to BLM's Oil and Gas Gold Book, Enclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

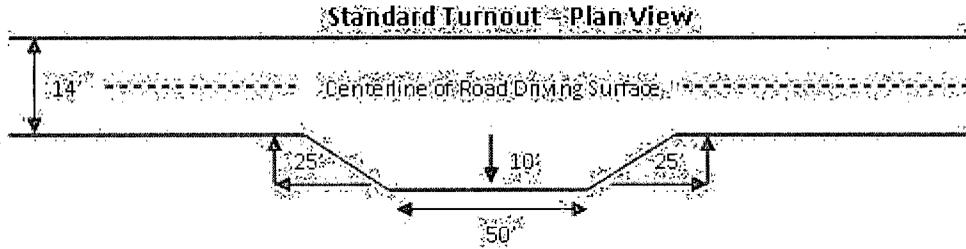
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

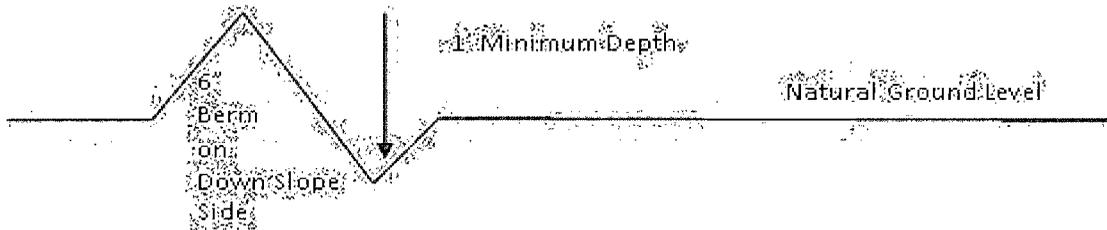


Drainage.

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

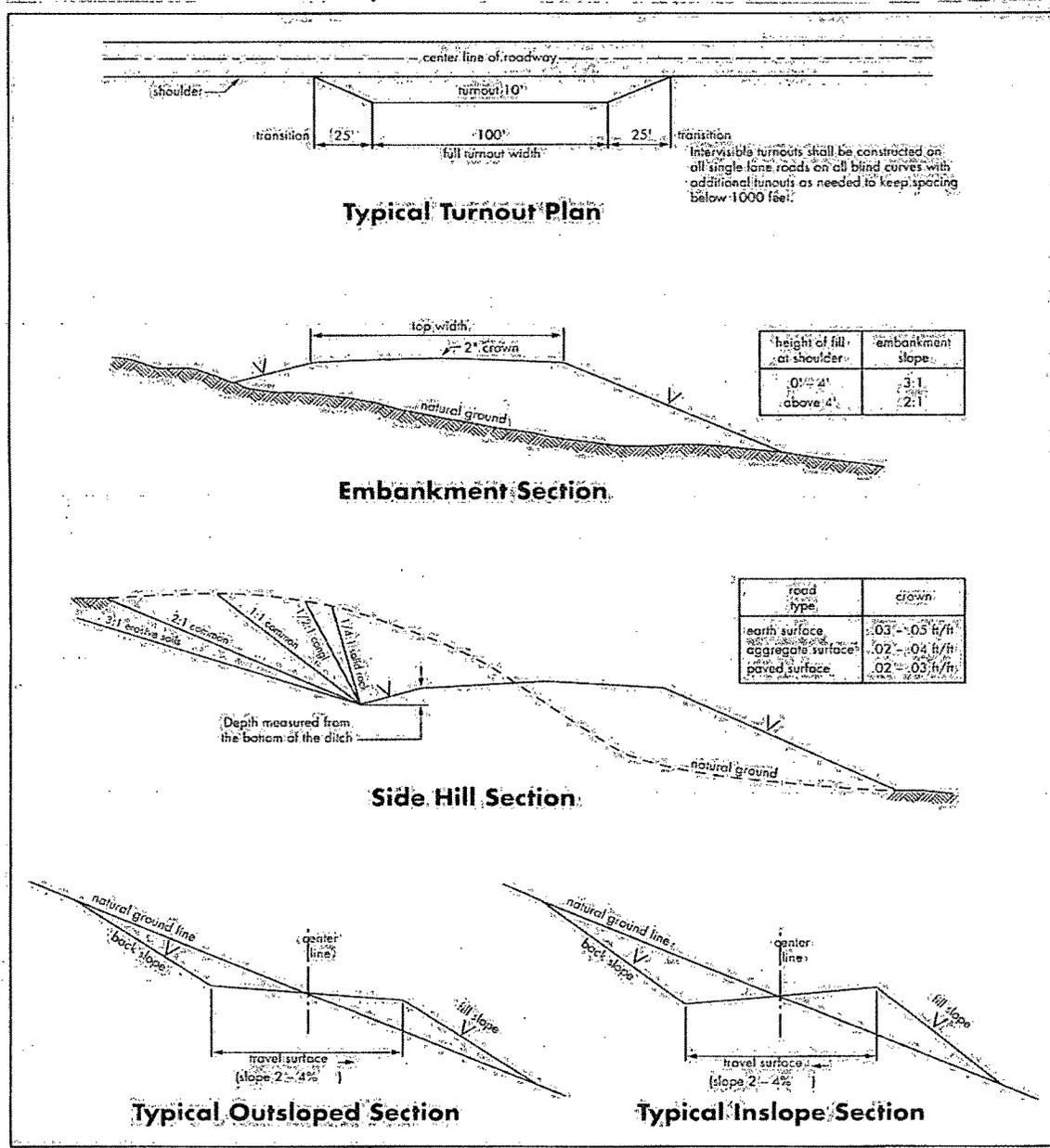
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium Cave/Karst

Possibility of lost circulation in the Delaware.

1. The **13-3/8** inch surface casing shall be set at approximately **450** feet and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralization for production casing is approved as written.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 23% - Additional cement may be required.**
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP.53 Sec. 17.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi.**
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** intermediate casing shoe shall be **5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

CRW 071913

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BLM LEASE NUMBER:

COMPANY NAME:

ASSOCIATED WELL NAME:

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 *et seq.* (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way.

This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:
 - No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|----------------------------------------------------|--------------------------------------------------|
| <input checked="" type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES (not applied for in APD)

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1, for Loamy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains lovegrass (<i>Eragrostis intermedia</i>)	0.5
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sideoats grama (<i>Bouteloua curtipendula</i>)	5.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. 30-015- 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> 6. State Oil & Gas Lease No.
2. Name of Operator Cimarex Energy Co. of Colorado		7. Lease Name or Unit Agreement Name White City 8 Federal 8. Well Number 5H
3. Address of Operator 600 N. Marienfeld Street, Suite 600; Midland, TX 79701		9. OGRID Number 215099 162683 10. Pool name or Wildcat Wildcat Bone Spring
4. Well Location Unit Letter <u>P</u> : <u>330</u> feet from the <u>South</u> line and <u>660</u> feet from the <u>East</u> line Section <u>8</u> Township <u>25S</u> Range <u>27E</u> NMPM <u>EDDY</u> County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3243' GR		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON CHANGE PLANS
 PULL OR ALTER CASING MULTIPLE COMPL
 DOWNHOLE COMMINGLE

SUBSEQUENT REPORT OF:

- REMEDIAL WORK ALTERING CASING
 COMMENCE DRILLING OPNS. P AND A
 CASING/CEMENT JOB

OTHER: Drilled with Closed Loop System OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

During this procedure we plan to use the closed-loop system with a steel tank and haul contents to the required disposal, per OCD Rule 19.15.17."

www.emnra.state.nm.us

Current forms are available on our website and should be used when filing regulatory documents.

Spud Date

Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Chloe Alexander TITLE Regulatory Admin Assistant DATE 08/05/2013

Type or print name Chloe Alexander E-mail address: cdalexander@cimarex.com PHONE: 432-620-1938
 For State Use Only

APPROVED BY: [Signature] TITLE Dist H. Spewison DATE 8/6/13
 Conditions of Approval (if any):