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FEB 15 2018

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Form 3160-3
(March 2012)

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM27506

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: SD EA 29 32 FED COM P10 19H (320787)

2. Name of Operator: CHEVRON USA INCORPORATED (4323)

9. API Well No.: 30-025-44487

3a. Address: 6301 Deauville Blvd. Midland TX 79706

3b. Phone No. *(include area code)*: (432)687-7866

10. Field and Pool, or Exploratory: WC025G09S263327G / UPPER WOLFC (98097)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NENW / 120 FNL / 2633 FEL / LAT 32.021432 / LONG -103.59424

At proposed prod. zone: LOT 2 / 180 FSL / 2430 FEL / LAT 32.000612 / LONG -103.593586

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 29 / T26S / R33E / NMP

14. Distance in miles and direction from nearest town or post office*: 33 miles

12. County or Parish: LEA

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 120 feet

16. No. of acres in lease: 1517.74

17. Spacing Unit dedicated to this well: 237.41

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 25 feet

19. Proposed Depth: 12213 feet / 22300 feet

20. BLM/BIA Bond No. on file: FED: CA0329

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3237 feet

22. Approximate date work will start*: 01/01/2018

23. Estimated duration: 120 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.
2. A Drilling Plan.
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).
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 BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Denise Pinkerton / Ph: (432)687-7375	07/11/2017

Title: Regulatory Specialist

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	02/08/2018

Title	Office
Supervisor Multiple Resources	CARLSBAD

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.

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)

APPROVED WITH CONDITIONS

Approval Date: 02/08/2018

KE 02/15/18

REQUIRES NSL

Double sided

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Approval Date: 02/08/2018

Additional Operator Remarks

Location of Well

1. SHL: NENW / 120 FNL / 2633 FEL / TWSP: 26S / RANGE: 33E / SECTION: 29 / LAT: 32.021432 / LONG: -103.59424 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 330 FNL / 2430 FEL / TWSP: 26S / RANGE: 33E / SECTION: 29 / LAT: 32.020854 / LONG: -103.593584 (TVD: 12140 feet, MD: 12140 feet)
BHL: LOT 2 / 180 FSL / 2430 FEL / TWSP: 26S / RANGE: 33E / SECTION: 32 / LAT: 32.000612 / LONG: -103.593586 (TVD: 12213 feet, MD: 22300 feet)

BLM Point of Contact

Name: Priscilla Perez
Title: Legal Instruments Examiner
Phone: 5752345934
Email: pperez@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data Report
02/09/2018

APD ID: 10400015946
Submission Date: 07/11/2017
Operator Name: CHEVRON USA INCORPORATED
Well Name: SD EA 29 32 FED COM P10
Well Number: 19H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
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Section 1 - General

APD ID: 10400015946
Tie to previous NOS?
Submission Date: 07/11/2017
BLM Office: CARLSBAD
User: Denise Pinkerton
Title: Regulatory Specialist
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM27506
Lease Acres: 1517.74
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? NO
Permitting Agent? NO
APD Operator: CHEVRON USA INCORPORATED
Operator letter of designation:

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Operator Info

Operator Organization Name: CHEVRON USA INCORPORATED
Operator Address: 6301 Deauville Blvd.
Zip: 79706
Operator PO Box:
Operator City: Midland
State: TX
Operator Phone: (432)687-7866
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Mater Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: SD EA 29 32 FED COM P10
Well Number: 19H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: WC025G09S263327G
Pool Name: UPPER WOLFCAMP
Is the proposed well in an area containing other mineral resources? USEABLE WATER

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** SD EA **Number:** 17 18 19 20 29 32 FED COM P10

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 33 Miles **Distance to nearest well:** 25 FT **Distance to lease line:** 120 FT

Reservoir well spacing assigned acres Measurement: 237.41 Acres

Well plat: SD_EA_29_32_Fed_Com_P10_19H_Well_Plat_07-11-2017.pdf

SD_EA_29_32_P10_19H_C102_07-11-2017.pdf

Well work start Date: 01/01/2018 **Duration:** 120 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NGVD29

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	120	FNL	2633	FEL	26S	33E	29	Aliquot NENW	32.021432	-103.59424	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27506	3237	0	0
KOP Leg #1	120	FNL	2633	FEL	26S	33E	29	Aliquot NENW	32.021432	-103.59424	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27506	3237	0	0
PPP Leg #1	330	FNL	2430	FEL	26S	33E	29	Aliquot NENW	32.020854	-103.593584	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27506	-8903	12140	12140

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	330	FSL	2430	FEL	26S	33E	32	Lot 2	32.00115	-103.593566	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27506	-8903	12140	12140
BHL Leg #1	180	FSL	2430	FEL	26S	33E	32	Lot 2	32.000612	-103.593586	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 27506	-8976	22300	12213

SD EA 29 32 FED COM P10 NO. 19H WELL	
X=	729,209 NAD 27
Y=	372,262
LAT.	32.021307
LONG.	103.593774
X=	770,397 NAD83
Y=	372,319
LAT.	32.021432
LONG.	103.594240
ELEVATION +3237' NAVD 88	

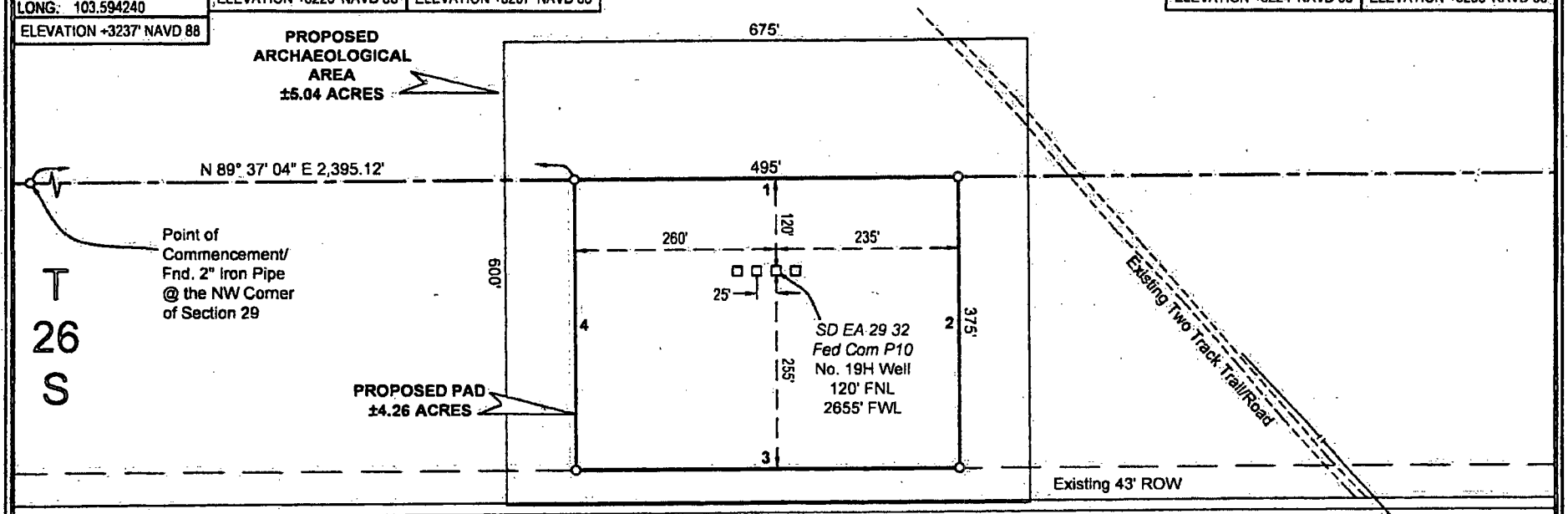
NW PAD CORNER	NE PAD CORNER
X= 728,948 NAD 27	X= 729,443 NAD 27
Y= 372,380	Y= 372,384
ELEVATION +3232' NAVD 88	ELEVATION +3247' NAVD 88
SW PAD CORNER	SE PAD CORNER
X= 728,951 NAD 27	X= 729,446 NAD 27
Y= 372,005	Y= 372,009
ELEVATION +3226' NAVD 88	ELEVATION +3237' NAVD 88

NW ARCH. AREA CORNER	NE ARCH. AREA CORNER
X= 728,857 NAD 27	X= 729,532 NAD 27
Y= 372,559	Y= 372,564
ELEVATION +3234' NAVD 88	ELEVATION +3253' NAVD 88
SW ARCH. AREA CORNER	SE ARCH. AREA CORNER
X= 728,861 NAD 27	X= 729,536 NAD 27
Y= 371,960	Y= 371,964
ELEVATION +3224' NAVD 88	ELEVATION +3238' NAVD 88

R 33 E

Sec. 20

Bureau of Land Management



Sec. 29

Bureau of Land Management

Existing Pipeline

NAD 27 NEW MEXICO EAST ZONE

LEGEND

- Existing ROW
- Proposed Pad
- Existing Pipeline
- Existing Road
- Section Line
- O Fnd. Monument

Scale: 1" = 200'

200' 0 100' 200'

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR

5-4-2017

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER

C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

WELL PLAT PAGE 1 OF 2

CHEVRON U.S.A. INC.

PROPOSED PAD
SD EA 29 32 FED COM P10 NO. 19H WELL
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No. 1	DATE: 04/04/2017	REVISED BY: KJD
DATE: 03/17/2017	No. 2	DATE: 05/02/2017	REVISED BY: BOR
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 No. 19H Well Plat.dwg			

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
02/09/2018

APD ID: 10400015946 **Submission Date:** 07/11/2017

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Well Type: OIL WELL **Well Work Type:** Drill

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	3235	800	800	ANHYDRITE	NONE	No
2	CASTILE	-245	3480	3480	DOLOMITE	NONE	No
3	LAMAR	-1665	4900	4900	LIMESTONE	NONE	No
4	BELL CANYON	-1695	4930	4930	SANDSTONE	NONE	No
5	CHERRY CANYON	-2735	5970	5970	SANDSTONE	NONE	No
6	BRUSHY CANYON	-4385	7620	7620	SANDSTONE	NONE	No
7	BONE SPRING LIME	-5855	9090	9090	LIMESTONE	NONE	No
8	UPPER AVALON SHALE	-5885	9120	9120	SHALE	NONE	No
9	BONE SPRING 1ST	-6805	10040	10040	LIMESTONE	NONE	No
10	BONE SPRING 2ND	-7465	10700	10700	LIMESTONE	NONE	No
11	BONE SPRING 3RD	-8505	11740	11740	LIMESTONE	NONE	No
12	WOLFCAMP	-8905	12140	23000	SHALE	OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 12213

Equipment: MINIMUM OF 10000 PSI RIG STACK (SEE PROPOSED SCHEMATIC FOR DRILL OUT BELOW SURFACE CASING) WOLFCAMP IS NOT EXPOSED UNTIL DRILLOUT OF INTER CSG. COULD POSSIBLY USE 5M RIG STACK FOR DRILL OUT BELOW SURF CSG DUE TO AVAILABILITY OF 10M ANNULAR. STACK WILL BE TESTED AS SPECIFIED IN THE ATTACHED TESTING REQUIREMENTS. BATCH DRILLING OF THE SURF, INTER, AND PRODUCTION CSG WILL TAKE PLACE. A FULL BOP TEST WILL BE PERFORMED UNLESS APPROVAL FROM BLM IS RECVD OTHERWISE. FLEX CHOKE HOSE WILL BE USED FOR ALL WELLS ON THE PAD. BOP TEST WILL BE CONDUCTED BY A 3RD PARTY. THE FIELD REPORT FROM FMC AND BOP TEST INFO WILL BE PROVIDED IN A SUBSEQUENT REPORT AT THE END OF THE WELL. AN INSTALLATION MANUAL HAS BEEN PLACED ON FILE WITH

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

THE BLM OFFICE AND REMAINS UNCHANGED FROM PREVIOUS SUBMITTAL.

Requesting Variance? YES

Variance request: FMC UH2 MULTIBOWL WELLHEAD, WHICH WILL BE RUN THROUGH THE RIG FLOOR ON SURFACE CASING. BOPE WILL BE NIPPLED UP AND TESTED AFTER CEMENTING SURF CSG. SUBSEQUENT TESTS WILL BE PERFORMED AS NEEDED, NOT TO EXCEED 30 DAYS. ALSO, FLEX CHOKE HOSE WILL BE USED FOR ALL WELLS ON THE PAD. (SEE ATTACHED SPEC)

Testing Procedure: BEFORE DRILLING OUT OF THE SURFACE CSG, THE RAM-TYPE BOP AND ACCESSORY EQPT WILL BE TESTED TO 5000/250 PSIG AND THE ANNULAR PREVENTER TO 5000/250 PSIG. THE SURFACE CSG WILL BE TESTED TO 1500 PSI FOR 30 MINS. BEFORE DRILLING OUT OF THE INTER CSG, THE RAM-TYPE BOP AND ACCESSORY EQPT WILL BE TESTED TO 5000/250 PSIG AND THE ANNULAR PREVENTER TO 5000/250 PSIG. THE INTER CSG WILL BE TESTED TO 2000 PSI FOR 30 MINS. PIPE RAMS WILL BE OPERATIONALLY CHECKED EACH 24 HR PERIOD. BLIND RAMS WILL BE OPERATIONALLY CHECKED ON EACH TRIP OUT OF THE HOLE. THESE CHECKS WILL BE NOTED ON THE DAILY TOUR SHYEETS. A HYDRAULICALLY OPERATED CHOKE WILL BE INSTALLED PRIOR TO DRILLING OUT OF THE INTERMEDIATE CASING SHOE.

Choke Diagram Attachment:

10M_BOP_Choke_Schematics_BLM_new_20170914131439.pdf

Choke_hose_Spec_X30_20170914131500.pdf

1684_001_20170914131518.pdf

BOP Diagram Attachment:

UH_2_10K_20170914131536.pdf

10M_BOP_Choke_Schematics_BLM_new_20170914131549.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	800	0	-800	-8976	-8176	800	J-55	55	STC	3.12	1.36	DRY	3.17	DRY	1.7
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	11500	0	-11500	-8976	2524	11500	HCL-80	43.5	LTC	1.44	1.12	DRY	1.93	DRY	1.37
3	PRODUCTION	8.5	5.5	NEW	API	N	0	22300	0	-22300	-8976	14024	22300	P-110	20	OTHER - TXP BTC	1.23	1.11	DRY	1.97	DRY	1.37

Casing Attachments

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SD__EA_2932_FED_COM_P10_19H_9_pt_plan_20170914131831.pdf

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SD__EA_2932_FED_COM_P10_19H_9_pt_plan_20170914131941.pdf

9.625_43.5lb_L80IC_LTC_20170914132002.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SD__EA_2932_FED_COM_P10_19H_9_pt_plan_20170914132218.pdf

TenarisXP_BTC_5.500_20_P110_ICY_20170914132237.PDF

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	800	650	1.33	14.8	6.57	50	CLASS C	NONE
INTERMEDIATE	Lead	4870	0	4570	1070	2.39	11.9	13.46	100	CLASS C	NONE
INTERMEDIATE	Tail		4570	4870	89	1.33	14.8	6.35	25	CLASS C	NONE
INTERMEDIATE	Lead		4870	10650	1024	2.21	11.9	12.18	25	50:50 POZ CLASS C	NONE
INTERMEDIATE	Tail		10650	11150	184	1.22	15.6	5.37	25	CLASS H	NONE
PRODUCTION	Lead		10350	22300	2500	1.2	15.6	5.05	10	ACID SOLUBLE	NONE

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: IN COMPLIANCE WITH ONSHORE #2

Describe the mud monitoring system utilized: VISUAL MUD MONITORING EQPT, PVT, STROKE COUNTER, FLOW SENSOR IN COMPLIANCE WITH ONSHORE ORDER #2

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
800	11150	OIL-BASED MUD	8.7	9.2							
11150	12300	OIL-BASED MUD	9.5	13.5							
12300	22300	OIL-BASED MUD	9.5	13.5							
0	800	SPUD MUD	8.3	8.7							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

DRILL STEM TESTS NOT PLANNED

List of open and cased hole logs run in the well:

MWD

Coring operation description for the well:

CONVENTIONAL WHOLE CORE SAMPLES ARE NOT PLANNED

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8573 **Anticipated Surface Pressure:** 5886.14

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

SD_EA_29_32_Fed_Com_P10_H2S_07-11-2017.pdf

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD_EA_29_32_P10_19H_PLOT_07-11-2017.pdf

SD_EA_29_32_P10_19H_DIREC_SURV_07-11-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

SD_EA_29_32_Fed_Com_P10_19H_Pad_Cut_n_Fill_07-11-2017.pdf

Gas_Capture_Plan_Form_Pad_10_20170914134459.pdf

Other Variance attachment:

APD ID: 10400015946 **Submission Date:** 07/11/2017

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

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Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

SD_EA_29_32_Fed_Com_P10_19H_Road_Plat_07-11-2017.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: REPAIR POT HOLES, CLEAR DITCHES, REPAIR CROWN, ETC.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

1_Mile_Radius_Map_P10_19H_07-11-2017.pdf

- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

SD_EA_29_32_Fed_Com_P10_17H_THRU_20H_PrelimFlowlines_20170914135024.pdf
SD_EA_29_32_Fed_Com_P10_17H_THRU_20H_PrelimGas_Lift_Lines_20170914135039.pdf
SD_EA_29_32_P10_19H_WELL_PLAT_20170926065446.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: OTHER

Describe transportation land ownership:

Water source volume (barrels): 659461.25

Source volume (acre-feet): 85

Source volume (gal): 27697372

Water source and transportation map:

SD_EA_29_32_Fed_Com_P10_19H_Work_Area_Detail_07-11-2017.pdf

Water source comments: EXISTING PONDS IN SEC 19,T26S-R33E, FOR FW, & SEC 23 T26S-R32E & SEC 13 FOR RECYCLED WATER.

New water well? NO

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: CALICHE WILL BE USED TO CONSTRUCT WELL PAD & ROADS. PURCHASED FROM PRIVATE LAND OWNER-OLIVER KIEHNE CALICHE PIT LOCATED IN SEC 27, T26,R33E, LEA CNTY,NM. OR ALTERNATIVE N2 SEC 21, T26S, R33E, LEA COUNTY, NM.
Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: COLLECTED IN A TRASH CONTAINER & DISPOSED OF PROPERLY AT A STATE APPROVED DISPOSAL FACILITY.
Amount of waste: 200 pounds

Waste disposal frequency : Daily

Safe containment description: WILL BE COLLECTED IN TRASH CONTAINER & DISPOSED OF AT STATE APPROVED FACILITY
Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** STATE
Disposal type description:

Disposal location description: STATE APPROVED FACILITY

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

SD_EA_2932_Fed_Com_P10_Rig_Layout_07-11-2017.pdf
SD_EA_29_32_P10_19H_WELL_PLAT_20170926065530.pdf
Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** SD EA 29 32 FED COM P10

Multiple Well Pad Number: 17 18 19 20

Recontouring attachment:

SD_EA_29_32_Fed_Com_P10_19H_Reclaim_Plat_07-11-2017.pdf
P10_19H_APD_SUPO_07-11-2017.pdf
Drainage/Erosion control construction: SEE SURFACE USE PLAN

Drainage/Erosion control reclamation: SEE SURFACE USE PLAN

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Wellpad long term disturbance (acres): 2.45 **Wellpad short term disturbance (acres):** 1.81

Access road long term disturbance (acres): 0.02 **Access road short term disturbance (acres):** 0.02

Pipeline long term disturbance (acres): 0 **Pipeline short term disturbance (acres):** 12.811295

Other long term disturbance (acres): 0 **Other short term disturbance (acres):** 0

Total long term disturbance: 2.47 **Total short term disturbance:** 14.6412945

Reconstruction method: SEE SURFACE USE PLAN

Topsoil redistribution: SEE SURFACE USE PLAN

Soil treatment: SEE SURFACE USE PLAN

Existing Vegetation at the well pad: MESQUITE, SHRUBS, GRASS

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: MESQUITE, SHRUBS, GRASS

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: MESQUITE, SHRUBS, GRASS

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: MESQUITE, SHRUBS, GRASS

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NONE NEEDED

Weed treatment plan attachment:

Monitoring plan description: N/A

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Operator Name: CHEVRON USA INCORPORATED

Well Name: SD EA 29 32 FED COM P10 **Well Number:** 19H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? YES **Use APD as ROW?** YES

ROW Type(s): 288100 ROW – O&G Pipeline,Other

ROW Applications

SUPO Additional Information:

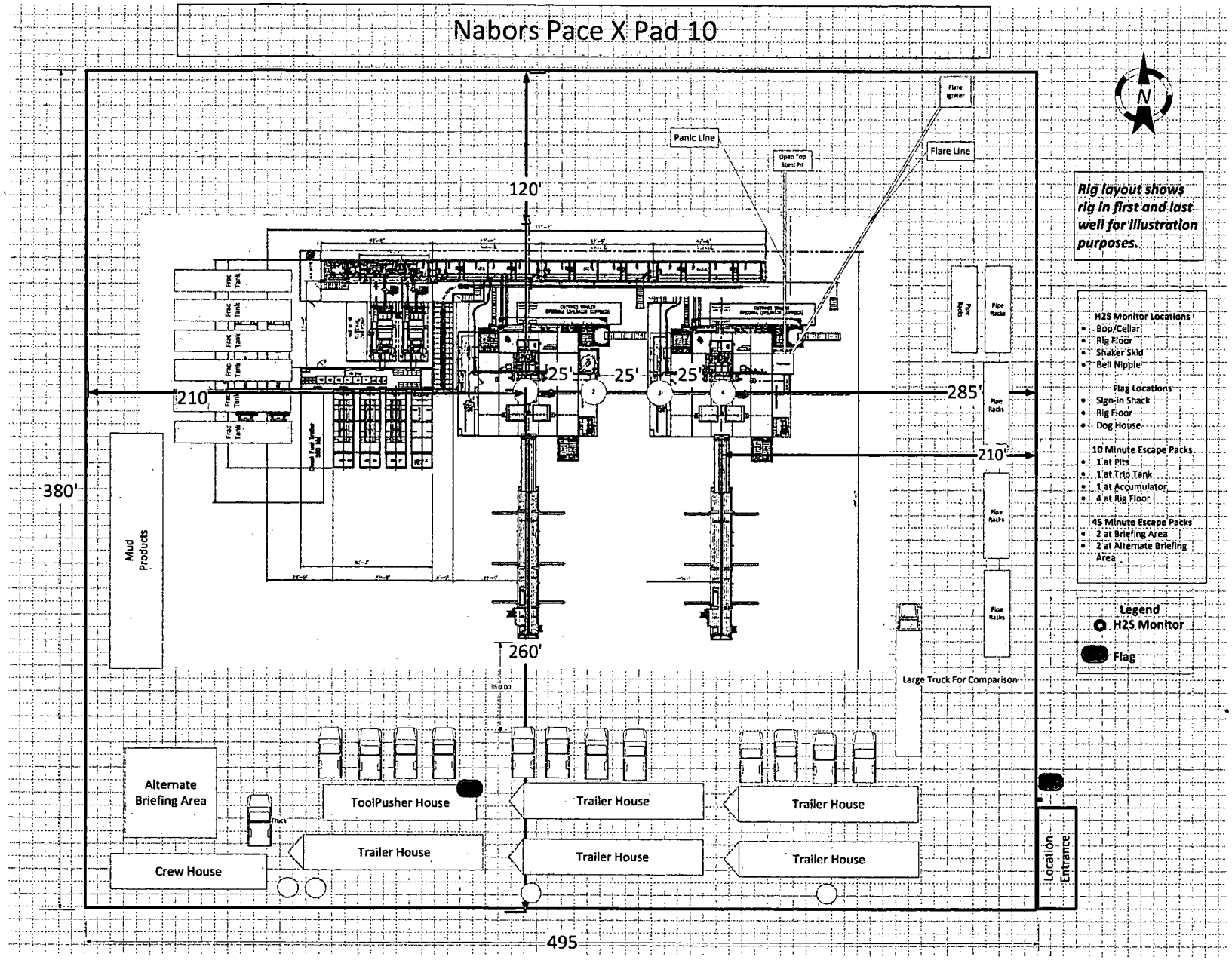
Use a previously conducted onsite? YES

Previous Onsite information: ON-SITE PERFORMED BY BLM NRS: PAUL MURPHY 4/26/2017

Other SUPO Attachment

SD_EA_29_32_Fed_Com_P10_19H_Pad_Cut_n_Fill_07-11-2017.pdf

Nabors Pace X Pad 10



Rig layout shows rig in first and last well for illustration purposes.

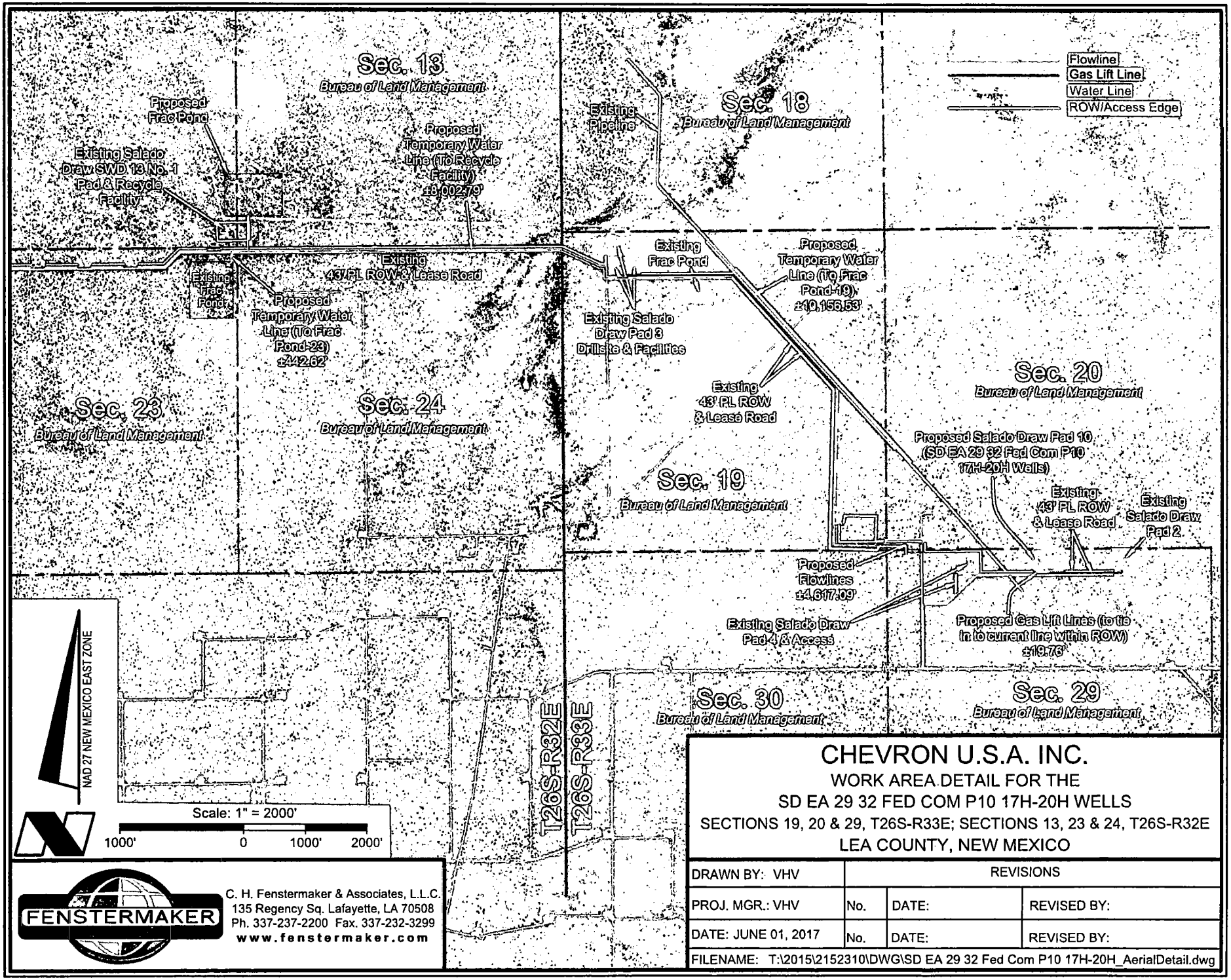
H2S Monitor Locations
- Bop/Cellar
- Rig Floor
- Shaker Skid
- Bell Nipple

Flag Locations
- Sign-in Shack
- Rig Floor
- Dog House

10 Minute Escape Packs
- 1 at Pits
- 1 at Trip Tank
- 1 at Accumulator
- 4 at Rig Floor

45 Minute Escape Packs
- 2 at Briefing Area
- 2 at Alternate Briefing Area

Legend
- H2S Monitor
- Flag



CHEVRON U.S.A. INC.

WORK AREA DETAIL FOR THE SD EA 29 32 FED COM P10 17H-20H WELLS

SECTIONS 19, 20 & 29, T26S-R33E; SECTIONS 13, 23 & 24, T26S-R32E

LEA COUNTY, NEW MEXICO

DRAWN BY: VHV	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: JUNE 01, 2017	No.	DATE:	REVISED BY:
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 17H-20H_AerialDetail.dwg			

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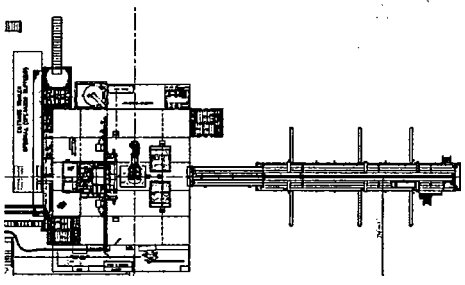
www.fenstermaker.com



SD EA 29 32 FED COM P10 NO. 19H WELL	
X=	729,209 NAD 27
Y=	372,262
LAT.	32.021307
LONG.	103.593774
X=	770,397 NAD83
Y=	372,319
LAT.	32.021432
LONG.	103.594240
ELEVATION +3237' NAVD 88	

NW PAD CORNER	
X=	728,948 NAD 27
Y=	372,380
ELEVATION +3232' NAVD 88	

NE PAD CORNER	
X=	729,443 NAD 27
Y=	372,384
ELEVATION +3247' NAVD 88	

SW PAD CORNER	
X=	728,951 NAD 27
Y=	372,005
ELEVATION +3226' NAVD 88	

SE PAD CORNER	
X=	729,446 NAD 27
Y=	372,009
ELEVATION +3237' NAVD 88	

R 33 E

Sec. 20

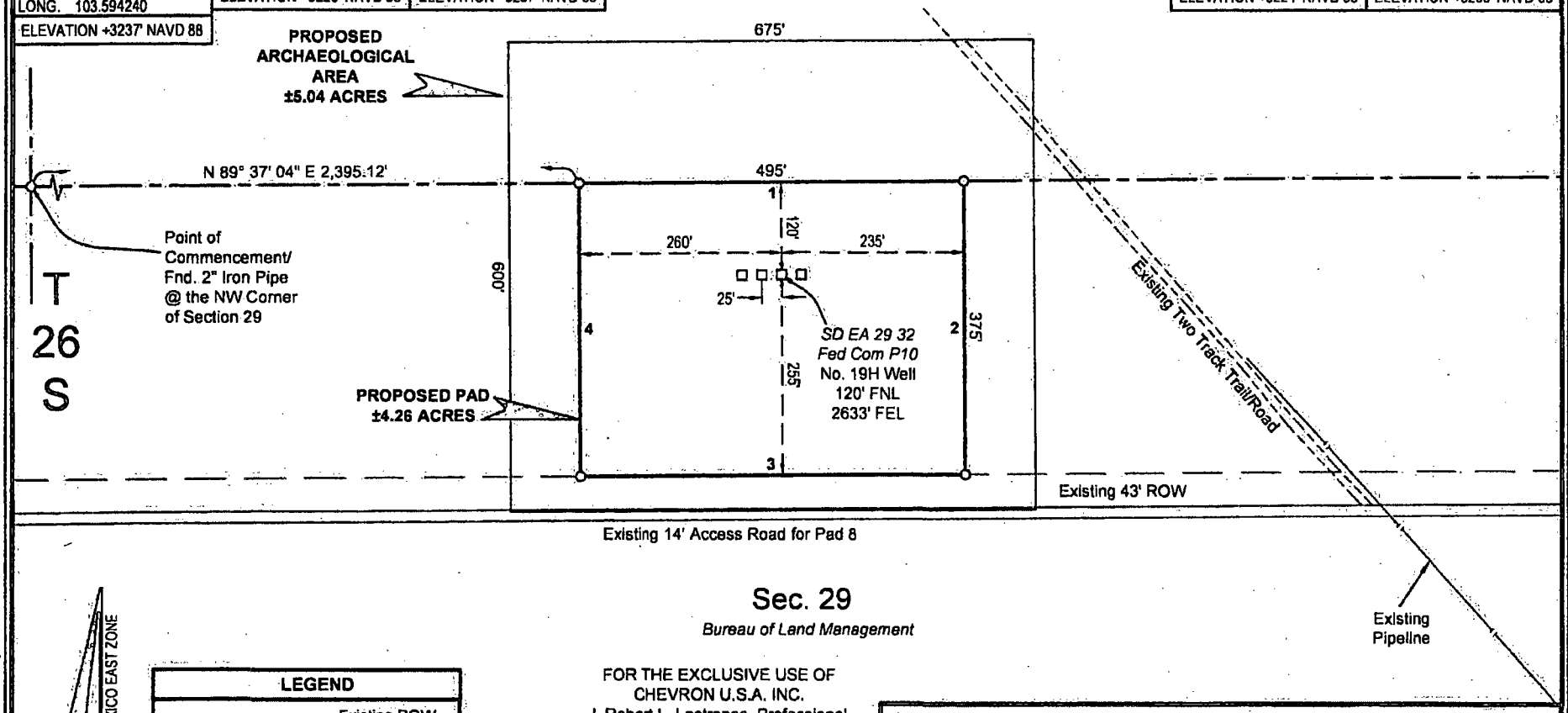
Bureau of Land Management

NW ARCH. AREA CORNER	
X=	728,857 NAD 27
Y=	372,559
ELEVATION +3234' NAVD 88	

NE ARCH. AREA CORNER	
X=	729,532 NAD 27
Y=	372,564
ELEVATION +3253' NAVD 88	

SW ARCH. AREA CORNER	
X=	728,861 NAD 27
Y=	371,960
ELEVATION +3224' NAVD 88	

SE ARCH. AREA CORNER	
X=	729,536 NAD 27
Y=	371,964
ELEVATION +3238' NAVD 88	



Sec. 29

Bureau of Land Management

NAD 27 NEW MEXICO EAST ZONE

LEGEND

- Existing ROW
- Proposed Pad
- Existing Pipeline
- Existing Road
- Section Line
- O Fnd. Monument

Scale: 1" = 200'

200' 0 100' 200'

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 9-25-2017 PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No.23006

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

WELL PLAT PAGE 1 OF 2

CHEVRON U.S.A. INC.

PROPOSED PAD
SD EA 29 32 FED COM P10 NO. 19H WELL
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No. 2	DATE: 05/02/2017	REVISED BY: BOR
DATE: 03/17/2017	No. 3	DATE: 09/25/2017	REVISED BY: VHV
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 No. 19H Well Plat.dwg			

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain; or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nmonecall.org

PROPOSED PAD		
COURSE	BEARING	DISTANCE
1	N 89° 37' 04" E	495.00'
2	S 00° 22' 56" E	375.00'
3	S 89° 37' 04" W	495.00'
4	N 00° 22' 56" W	375.00'

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES
NEW MEXICO
23006
9-25-2017
PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER

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www.fenstermaker.com

WELL PLAT PAGE 2 OF 2

CHEVRON U.S.A. INC.

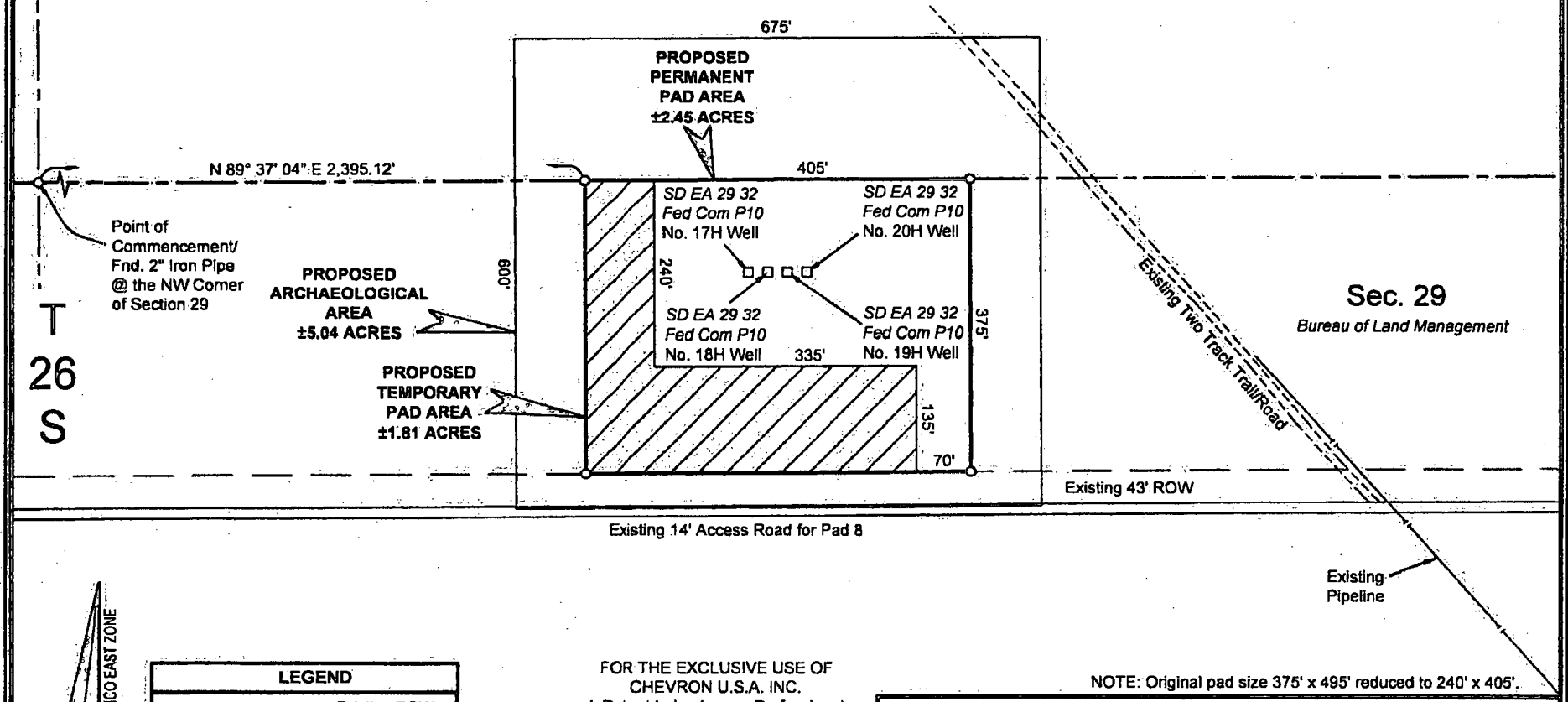
PROPOSED PAD
SD EA 29 32 FED COM P10 NO. 19H WELL
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No. 2	DATE: 05/02/2017	REVISED BY: BOR
DATE: 03/17/2017	No. 3	DATE: 09/25/2017	REVISED BY: VHV
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 No. 19H Well Plat.dwg			

R 33 E

Sec. 20

Bureau of Land Management



NOTE: Original pad size 375' x 495' reduced to 240' x 405'.

NAD 27 NEW MEXICO EAST ZONE

LEGEND

- Existing ROW
- Proposed Pad
- Existing Pipeline
- Existing Road
- Section Line
- ⊙ Fnd. Monument

Scale: 1" = 200'

200' 0 100' 200'

FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC.

I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES NEW MEXICO 23006 PROFESSIONAL SURVEYOR 6-7-2017

Robert L. Lastrapes
Registration No. 23006

PAD PLAT PAGE 1 OF 2

CHEVRON U.S.A. INC.

INTERIM RECLAMATION
SD EA 29 32 FED COM P10 NO. 17H-20H WELLS
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
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www.fenstermaker.com

DRAWN BY: AMT	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: 06/06/2017	No.	DATE:	REVISED BY:
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 17H-20H_IR.dwg			

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data Report

02/09/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: CA0329

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

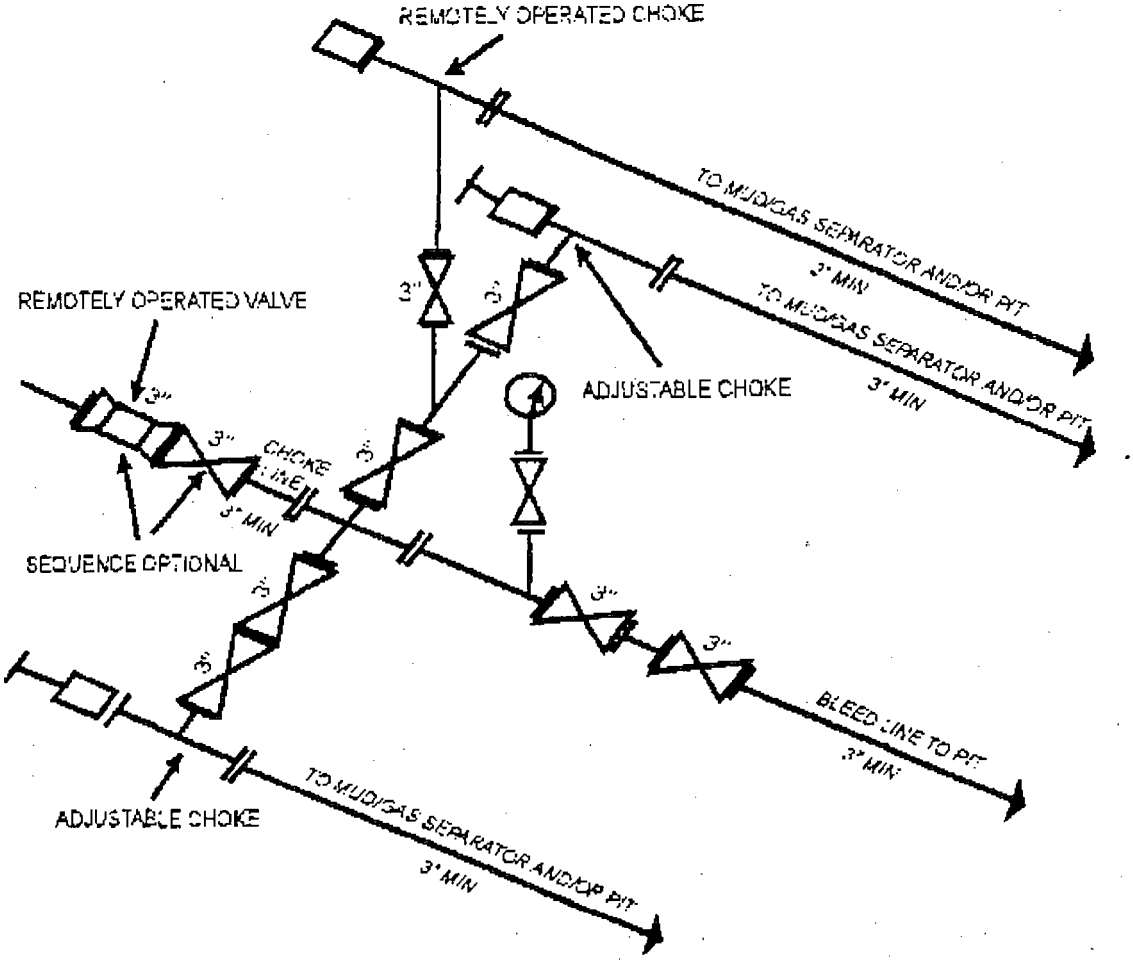
Additional reclamation bond information attachment:

10M Choke Manifold SCHEMATIC

Minimum Requirements

OPERATION: Production and Open Hole Sections

Minimum System Pressure Rating: 10,000 PSI



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Diagram D

10M BLOWOUT PREVENTER SCHEMATIC

Minimum Requirements

OPERATION: Wolfcamp Wells in Salado Draw

Minimum System Pressure Rating: 10,000 PSI

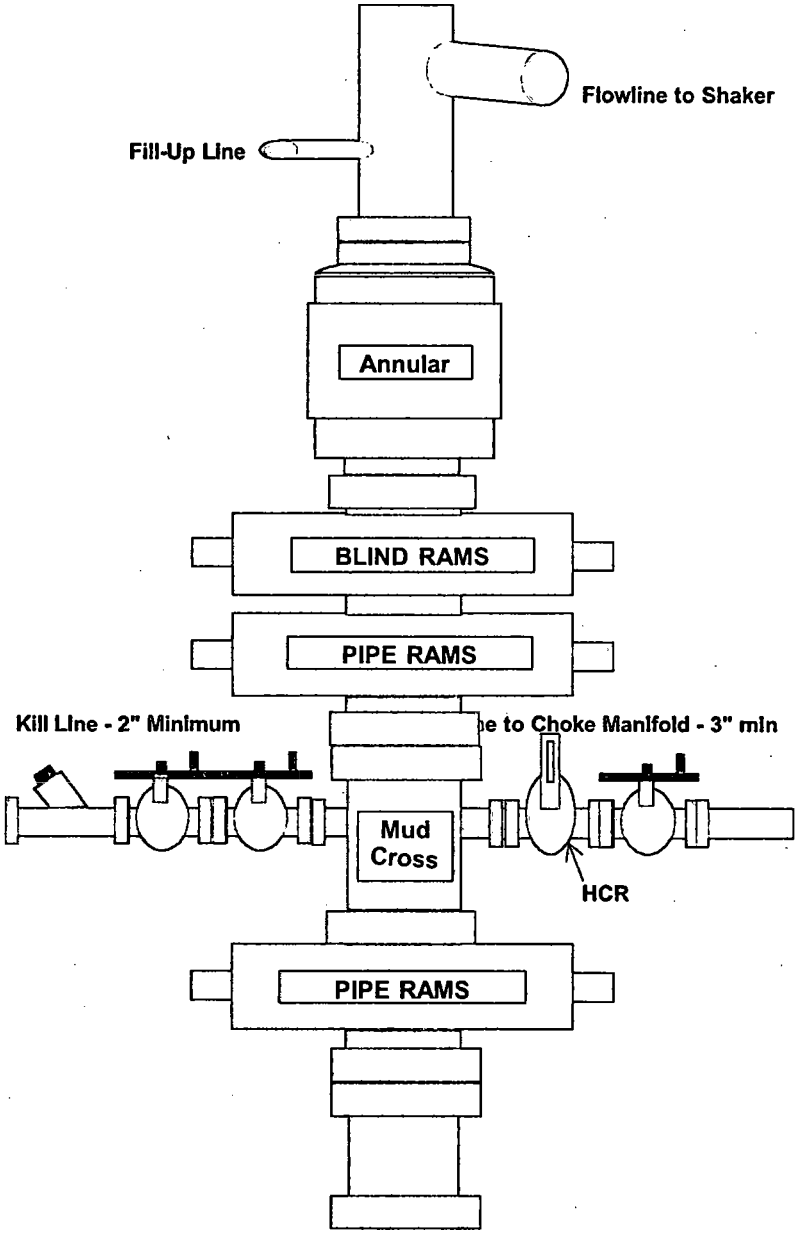


Diagram C

CHOKE MANIFOLD SCHEMATIC

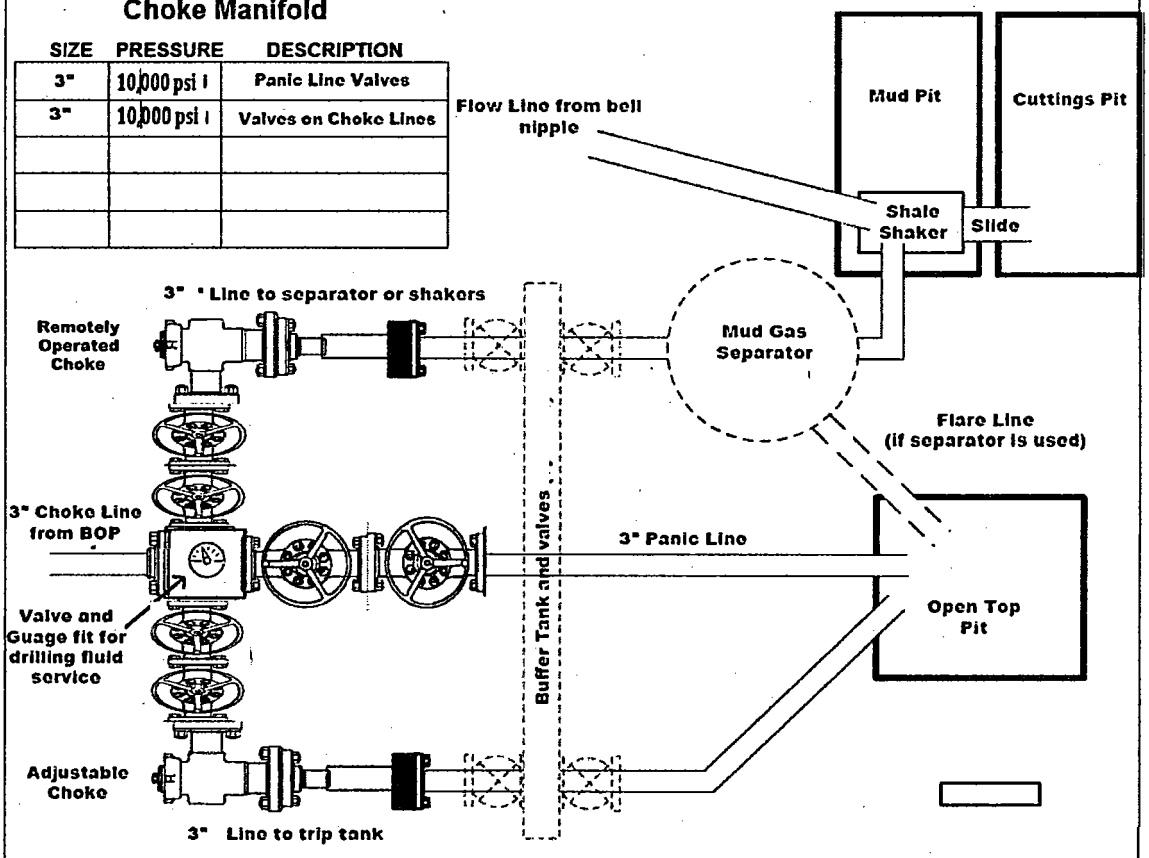
Minimum Requirements

OPERATION : Wolfcamp A wells

Minimum System Pressure Rating : 10,000 psi

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	10,000 psi	Panic Line Valves
3"	10,000 psi	Valves on Choke Lines



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ **The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.**
- ☐ **Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.**
- ☐ **Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.**
- ☐ **The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.**
- ☐ **All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.**
- ☐ **All manual valves will have hand wheels installed.**
- ☐ **If used, flare system will have effective method for ignition**
- ☐ **All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)**
- ☐ **If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

Diagram B

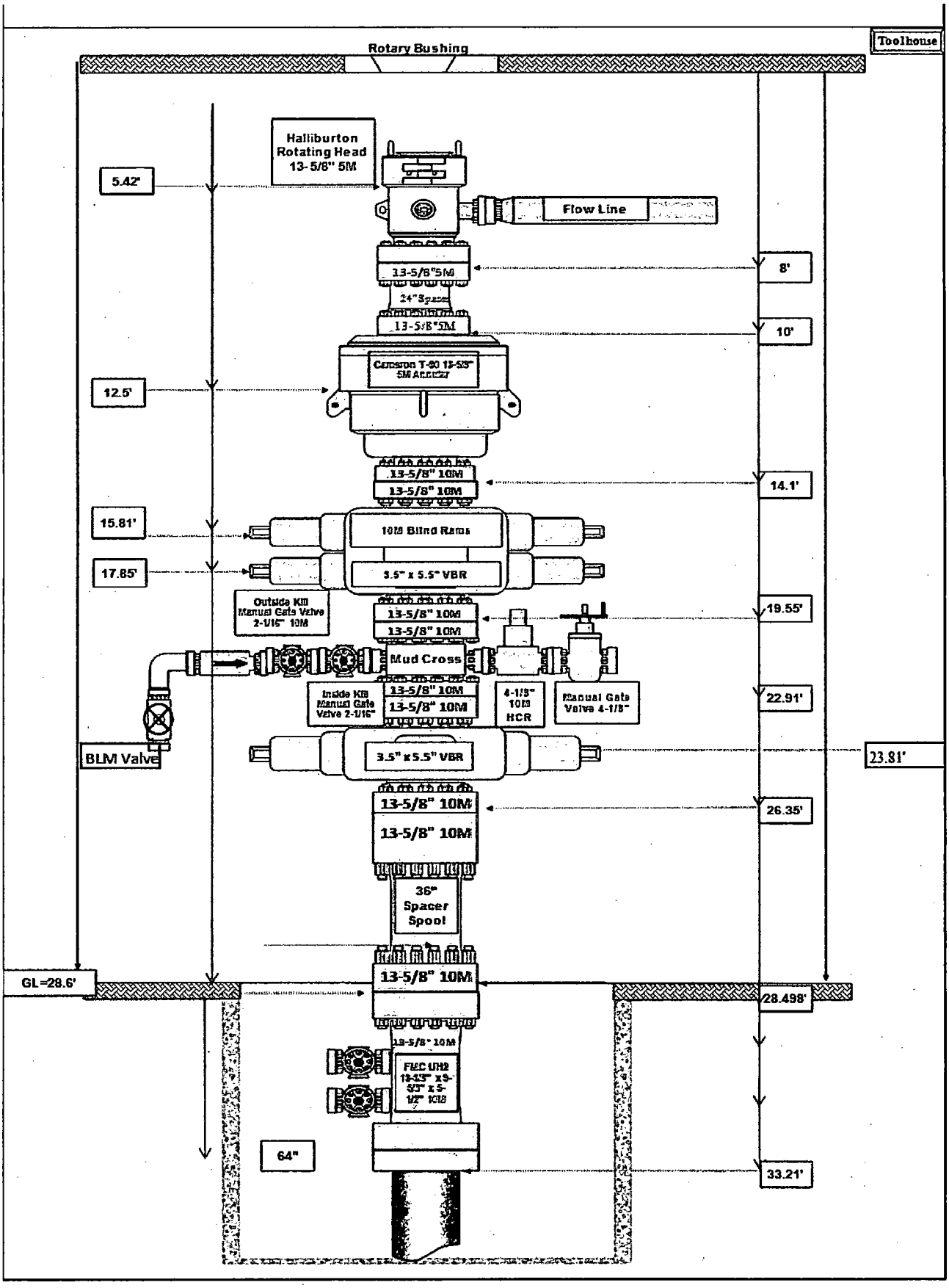
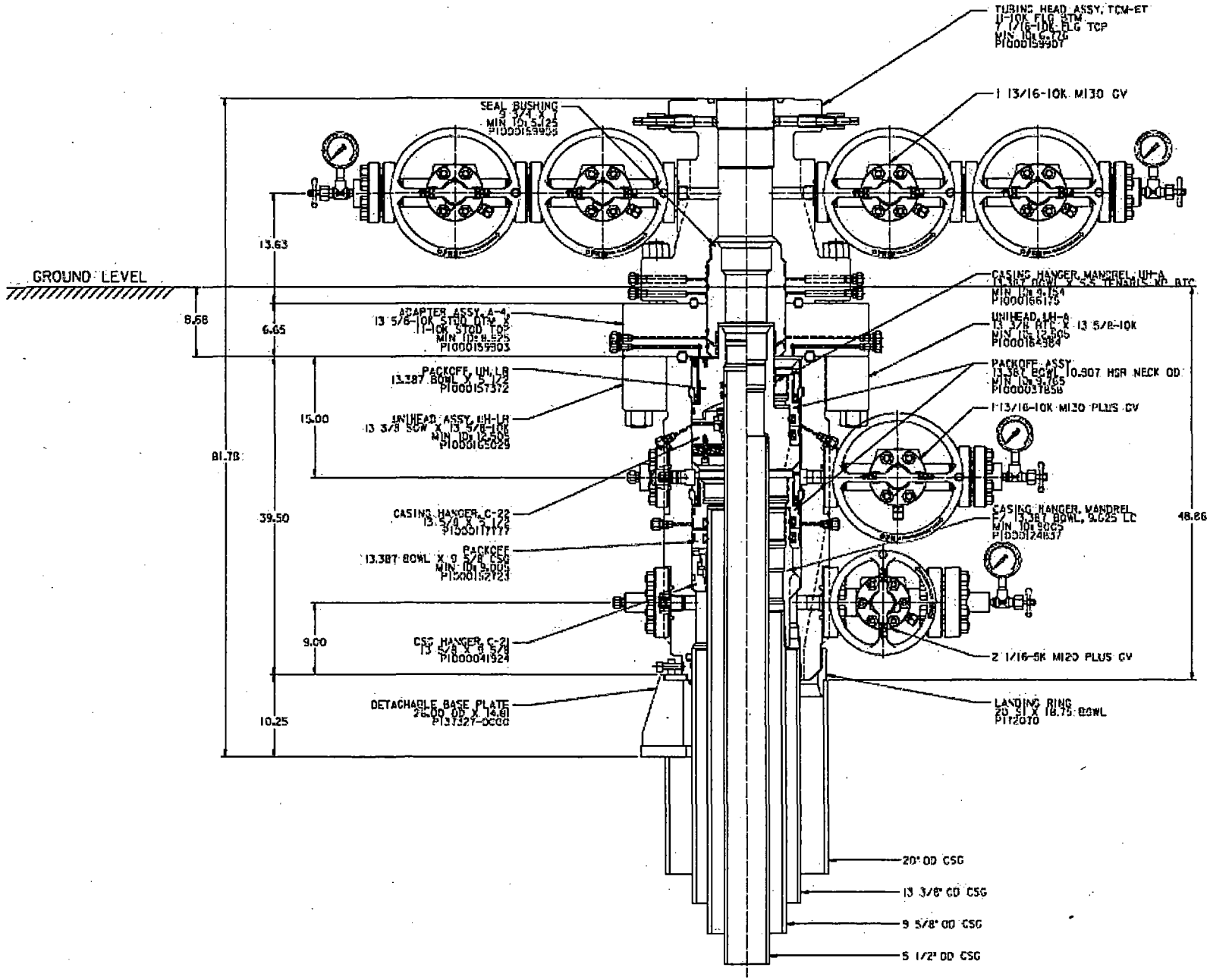
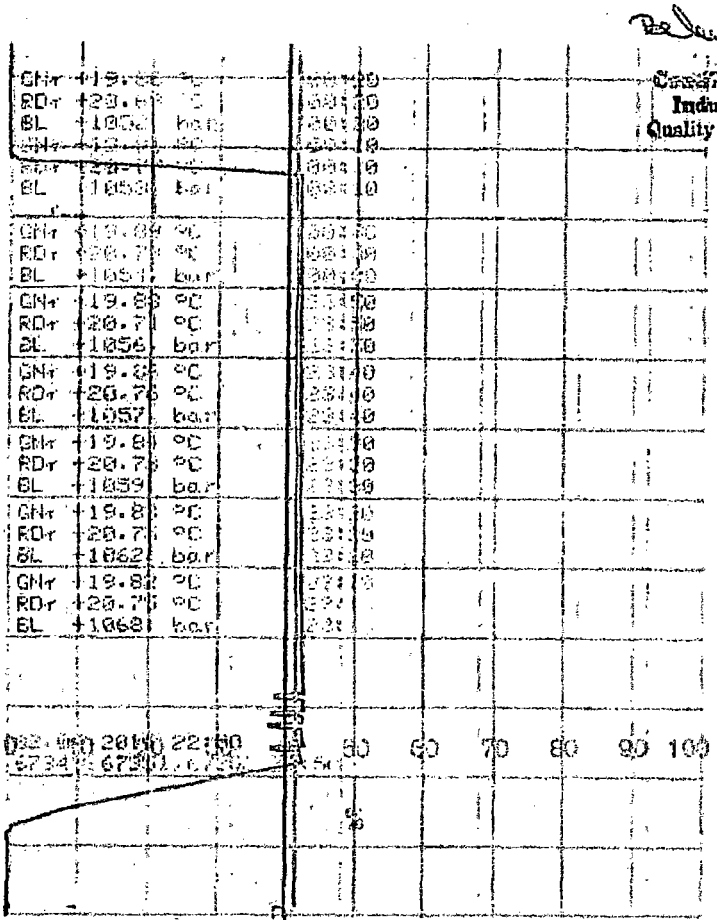

Rotary Bushing
Toolhouse
Halliburton Rotating Head 13-5/8" 5M
5.42'
Flow Line
13-5/8"5M
8'
24"Spacer
13-5/8"5M
10'
Cameron T-90 13-5/8" 5M Annular
12.5'
13-5/8" 10M
13-5/8" 10M
14.1'
15.81'
10M Blind Rams
17.85'
3.5" x 5.5" VBR
Outside Kill Manual Gate Valve 2-1/16" 10M
13-5/8" 10M
13-5/8" 10M
19.55'
Mud Cross
Inside Kill Manual Gate Valve 2-1/16"
13-5/8" 10M
13-5/8" 10M
4-1/8" 10M HCR
Manual Gate Valve 4-1/8"
22.91'
BLM Valve
3.5" x 5.5" VBR
23.81'
13-5/8" 10M
13-5/8" 10M
26.35'
36" Spacer Spool
13-5/8" 10M
GL=28.6'
28.498'
13-5/8" 10M
FMC UH2 13-5/8" x 9-5/8" x 5-1/2" MB
64"
33.21'

Diagram A


TUBING HEAD ASSY, TCM-ET
U-10K FLG STM
7 1/16-10K FLG TCP
MIN ID=6.276
P1000159907
SEAL BUSHING
3 3/4 X 7
MIN ID=5.125
P1000159905
1 13/16-10K MI30 GV
13.63
GROUND LEVEL
8.68
6.65
ADAPTER ASSY, A-4
13 5/8-10K STUD DTM X
11-10K STUD TOP
MIN ID=8.525
P1000159903
CASING HANGER MANDREL, UH-A
13.387 BOWL X 5.5 TENARIS WD BTC
MIN ID=4.154
P1000166175
UNIHEAD, UH-A
13 5/8 BTC X 13 5/8-10K
MIN ID=12.605
P1000164384
PACKOFF, UH, LB
13.387 BOWL X 5 1/2
P1000157372
PACKOFF ASSY
13.387 BOWL, 10.307 HGR NECK OD
MIN ID=9.765
P1000031858
15.00
UNIHEAD ASSY, UH-LB
13 3/8 SOW X 13 5/8-10K
MIN ID=12.605
P1000165029
1 13/16-10K MI30 PLUS GV
81.78
39.50
CASING HANGER, C-22
13 5/8 X 5 1/2
P1500117179
CASING HANGER, MANDREL
F/ 13.387 BOWL, 9.025 LC
MIN ID=8.065
P1000124837
48.66
PACKOFF
13.387 BOWL X 9 5/8 CSG
MIN ID=9.065
P1X0015212J
9.00
CSG HANGER, C-21
13 5/8 X 9 5/8
P1000041924
2 1/16-5K MI20 PLUS GV
DETACHABLE BASE PLATE
26.00 OD X 14.81
P137327-0C00
10.25
LANDING RING
20 SI X 18.75 BOWL
P1T2010
20" OD CSG
13 3/8" OD CSG
9 5/8" OD CSG
5 1/2" OD CSG

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE *No: 594, 596, 597*



CanaTech Rubber
Industrial Kit.
Quality Control Dept.
(1)

Continental
ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 231/ 2014
	Page: 10 / 119

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 594

PURCHASER:	ContiTech Oil & Marine Corp.	P.O. N°:	4500412631
CONTITECH ORDER N°:	538332	HOSE TYPE:	3" ID Choke & Kill Hose
HOSE SERIAL N°:	67349	NOMINAL / ACTUAL LENGTH:	13,72 m / 13,85 m

W.P.	68,9	MPa	10000	psi	T.P. 103,4	MPa	15000	psi

Duration: 60 min.

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.

→ 10 mm = 25 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°
3" coupling with	1435	1436	AISI 4130	A1258U
4 1/16" 10K API Swivel Flange end			AISI 4130	034939
Hub			AISI 4130	A1045N

Not Designed For Well Testing **API Spec 16 C**

Tag No.: 66 – 1198 **Temperature rate:"B"**

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

Date:	Inspector	Quality Control
03. April 2014.		ContiTech Rubber Industrial Kft. Quality Control Dept. (1)

Continental

ContiTech

Hose Data Sheet

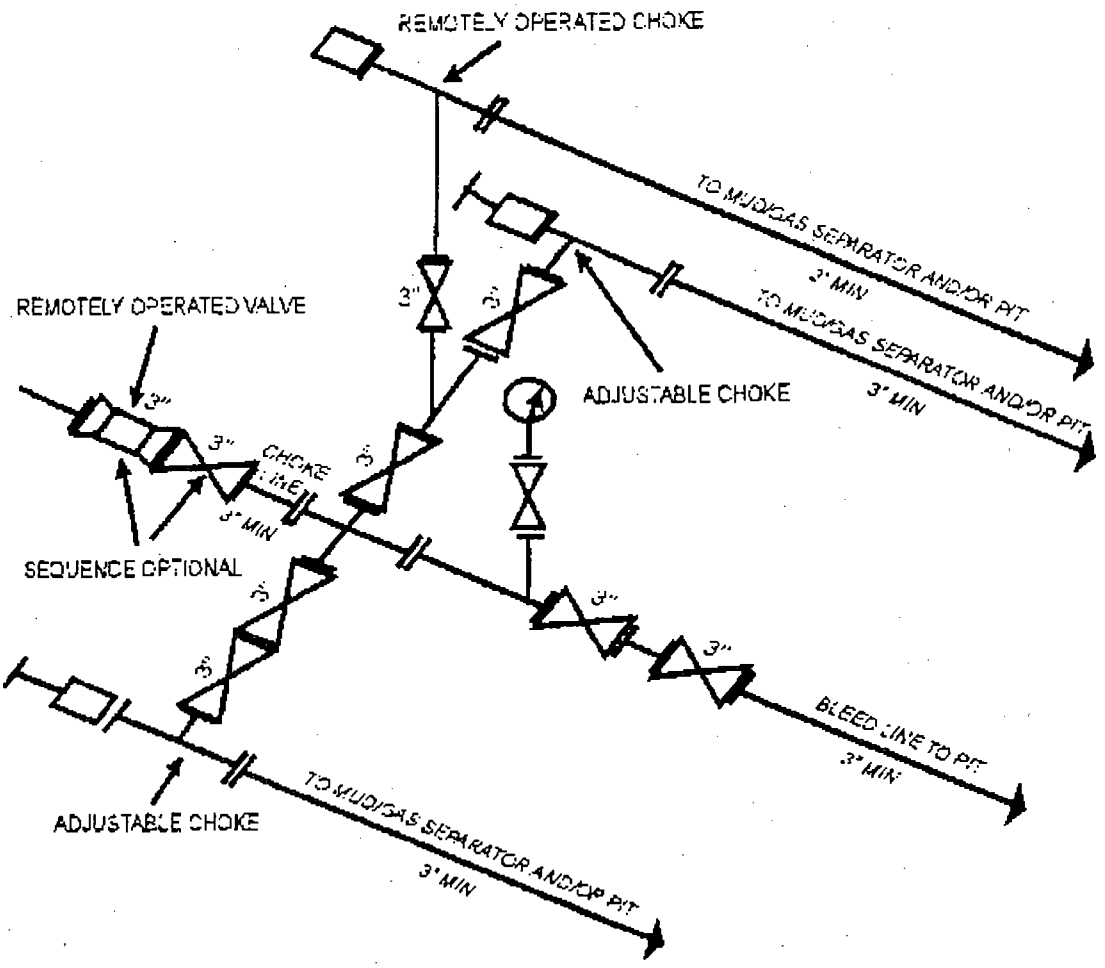
CRI Order No.	538332
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500412631 CBC544771, CBC544769, CBC544767, CBC544763, CBC544768, CBC544745, CBC544744, CBC544746
Item No.	1
Hose Type	Flexible Hose
Standard	**API SPEC 16 C**
Inside dia in inches	3
Length	45 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE SOURC/W BX155 ST/ST INLAID R.GR.
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE SOUR C/W BX155 ST/ST INLAID R.GR.
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	Yes
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

10M Choke Manifold SCHEMATIC

Minimum Requirements

OPERATION: Production and Open Hole Sections

Minimum System Pressure Rating: 10,000 PSI



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

Diagram D

10M BLOWOUT PREVENTER SCHEMATIC

Minimum Requirements

OPERATION: Wolfcamp Wells in Salado Draw

Minimum System Pressure Rating: 10,000 PSI

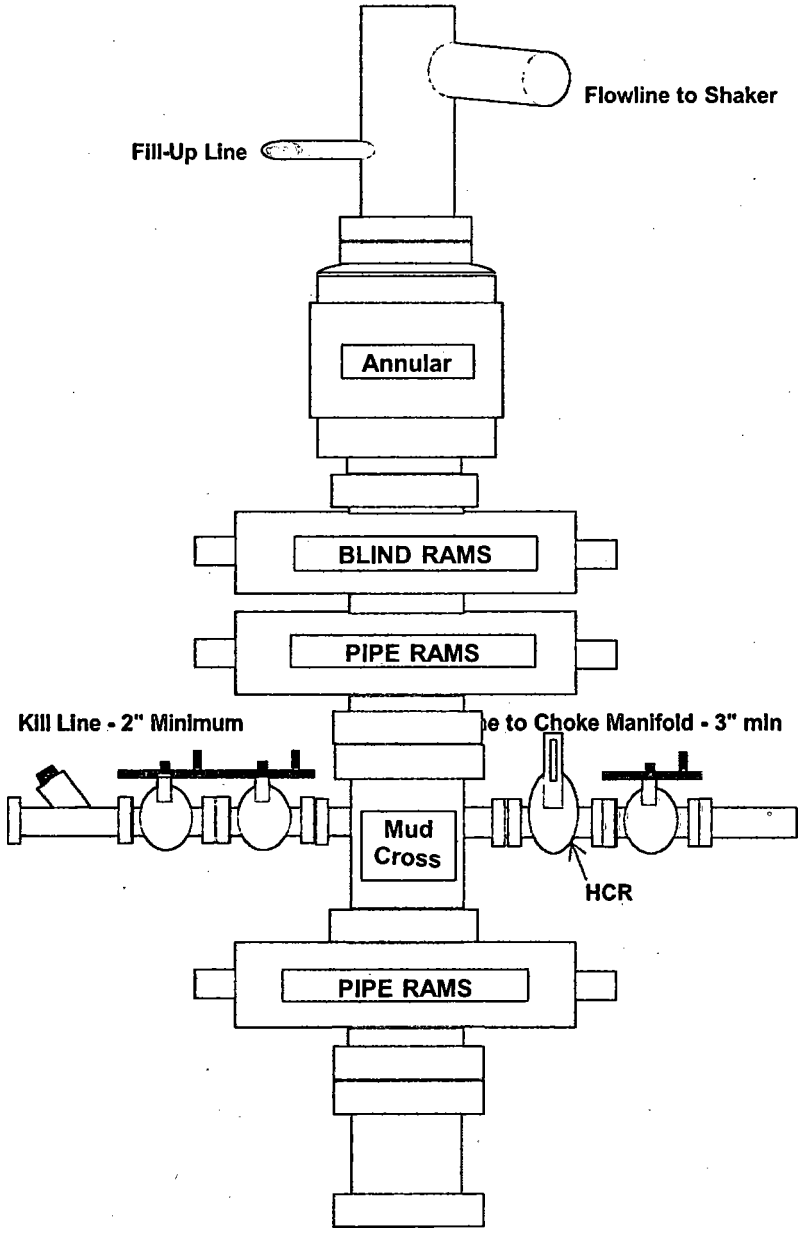


Diagram C

CHOKE MANIFOLD SCHEMATIC

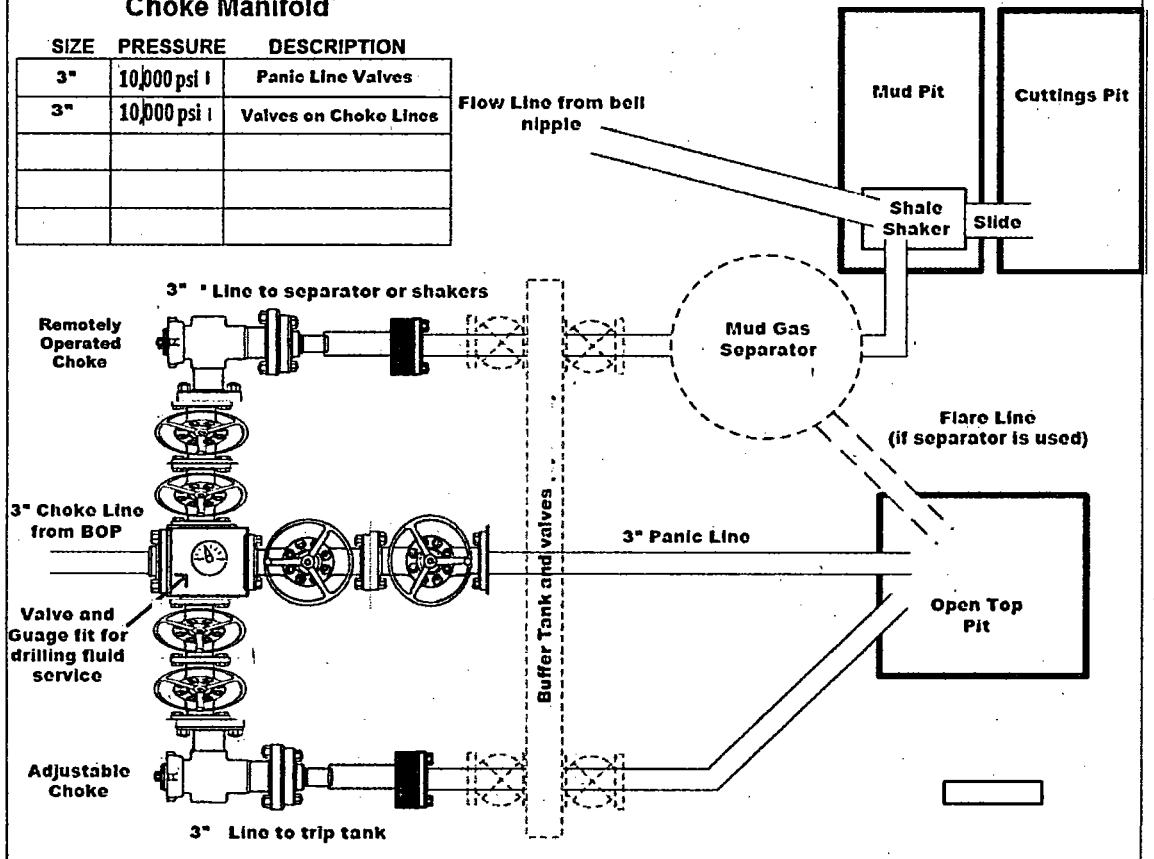
Minimum Requirements

OPERATION : Wolfcamp A wells

Minimum System Pressure Rating : 10,000 psi

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	10,000 psi	Panic Line Valves
3"	10,000 psi	Valves on Choke Lines



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ **The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.**
- ☐ **Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.**
- ☐ **Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.**
- ☐ **The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.**
- ☐ **All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.**
- ☐ **All manual valves will have hand wheels installed.**
- ☐ **If used, flare system will have effective method for ignition**
- ☐ **All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)**
- ☐ **If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

Diagram B

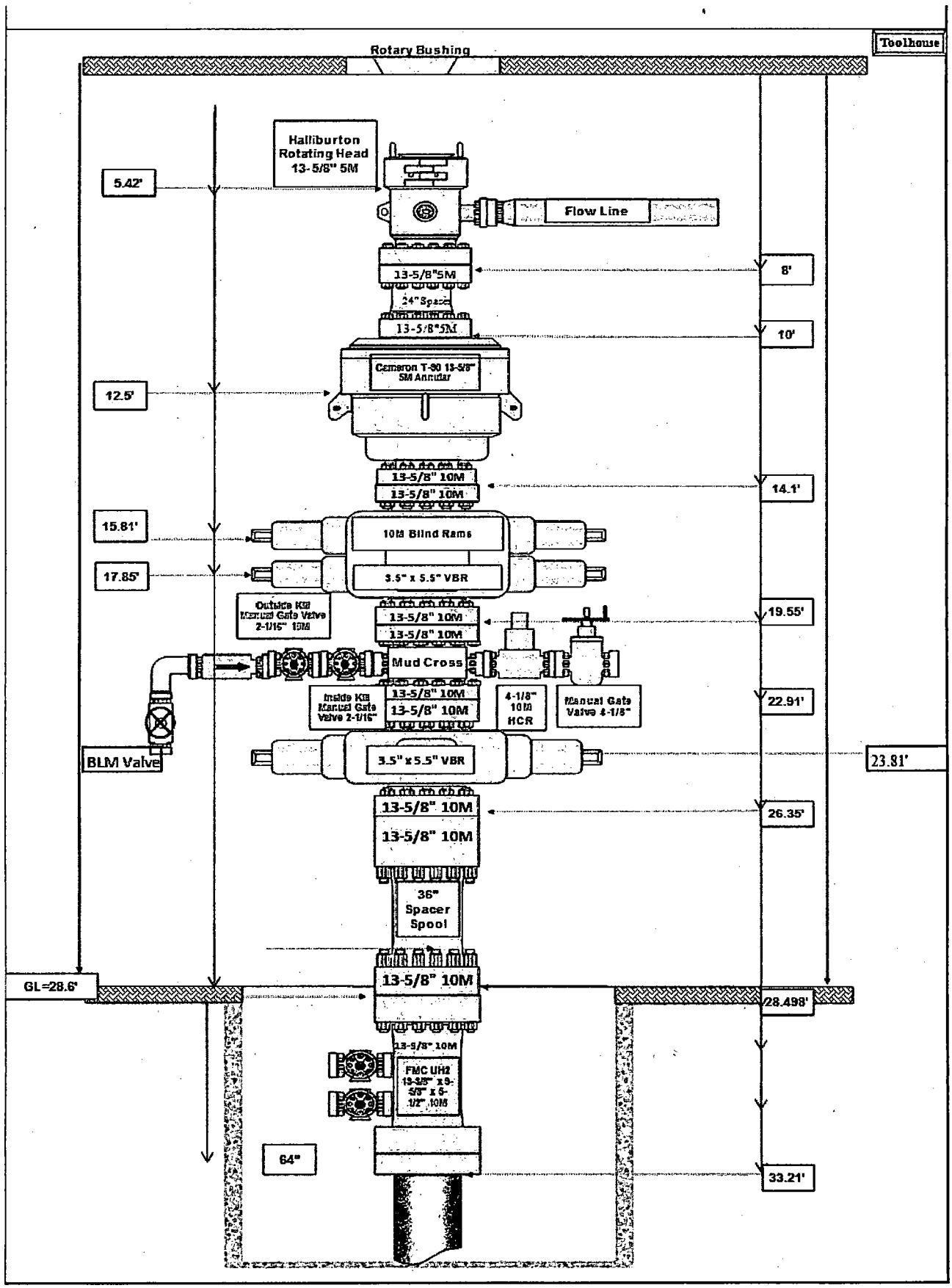

Rotary Bushing
Toolhouse
Halliburton Rotating Head 13-5/8" 5M
5.42'
Flow Line
13-5/8"5M
8'
24" Spacer
13-5/8"5M
10'
Cameron T-90 13-5/8" 5M Annular
12.5'
13-5/8" 10M
13-5/8" 10M
14.1'
15.81'
10M Blind Rams
17.85'
3.5" x 5.5" VBR
Outside Kill Manual Gate Valve 2-1/16" 10M
13-5/8" 10M
13-5/8" 10M
19.55'
Mud Cross
Inside Kill Manual Gate Valve 2-1/16"
13-5/8" 10M
13-5/8" 10M
4-1/8" 10M HCR
Manual Gate Valve 4-1/8"
22.91'
BLM Valve
3.5" x 5.5" VBR
23.81'
13-5/8" 10M
13-5/8" 10M
26.35'
36" Spacer Spool
13-5/8" 10M
GL=28.6'
28.498'
13-5/8" 10M
FMC UH2 13-5/8" x 9-5/8" x 5-1/2" 10M
64"
33.21'

Diagram A

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call www.nmonecall.org

PROPOSED PAD		
COURSE	BEARING	DISTANCE
1	N 89° 37' 04" E	495.00'
2	S 00° 22' 56" E	375.00'
3	S 89° 37' 04" W	495.00'
4	N 00° 22' 56" W	375.00'

FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

ROBERT L. LASTRAPES
NEW MEXICO
23006
5-4-2017
PROFESSIONAL SURVEYOR

Robert L. Lastrapes
Registration No. 23006

FENSTERMAKER
C. H. Fenstermaker & Associates, L.L.C.
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

WELL PLAT PAGE 2 OF 2

CHEVRON U.S.A. INC.

PROPOSED PAD
SD EA 29 32 FED COM P10 NO. 19H WELL
SECTION 29, T26S-R33E
LEA COUNTY, NEW MEXICO

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No. 1	DATE: 04/04/2017	REVISED BY: KJD
DATE: 03/17/2017	No. 2	DATE: 05/02/2017	REVISED BY: BOR
FILENAME: T:\2015\2152310\DWG\SD EA 29 32 Fed Com P10 No. 19H Well Plat.dwg			

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report
02/09/2018

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment: