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AT5-11-55

Form 3160-3 FEB 08 2011
(February 2005)

HOBBSOCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 20075. Lease Serial No.
NMNM-04591

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator
Devon Energy Production Co., LP3a. Address 20 North Broadway
OKC, OK 731023b. Phone No. (include area code)
(405)-236-3511

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

8. Lease Name and Well No.
KSI 22 Federal

9. API Well No.

10. Field and Pool, or Exploratory
Corbin South; Bone Spring

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

At surface SWSE 330' FSL & 1980' FEL Unit O

At proposed prod. zone NWNE 330' FNL & 1980' FEL Unit B

11. Sec., T. R. M. or Blk. and Survey or Area

Sec 22 T18S R33E

14. Distance in miles and direction from nearest town or post office*
Approximately miles southeast of, NM.12. County or Parish
Lea13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

330'

16. No. of acres in lease
1,114.15017. Spacing Unit dedicated to this well
160 acres18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. See attached map19. Proposed Depth 9660'
MD 13500'
9639' 4021'20. BLM/BIA Bond No. on file
CO-110421. Elevations (Show whether DF, KDB, RT, GL, etc.)
3836' GL22. Approximate date work will start*
02/01/201123. Estimated duration
45 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:

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

25. Signature

Name (Printed/Typed)

Spence Laird

Date

10/08/2010

Title

Regulatory Analyst

Approved by (Signature) /s/ James Stovall

Name (Printed/Typed)

Date FEB - 4 2011

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.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.

*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

KZ 02/10/11

GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Capitan Controlled Water Basin

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-40049	² Pool Code 13160	³ Pool Name Corbin BONE SPRING South
⁴ Property Code 38480	⁵ Property Name KSI 22 FEDERAL	
⁶ OGRID No. 6137	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁸ Well Number 1H
		⁹ Elevation 3836.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	22	18 S	33 E		330	SOUTH	1980	EAST	LEA

¹¹ 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
B	22	18 S	33 E		330	NORTH	1980	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

NW CORNER SEC. 22 LAT. = 32°44'25.24"N LONG. = 103°39'34.36"W NMSP EAST (FT) N = 633720.07 E = 748525.43	BOTTOM OF HOLE LAT. = 32°44'22.13"N LONG. = 103°38'55.87"W NMSP EAST (FT) N = 633426.09 E = 751815.74	NE CORNER SEC. 22 LAT. = 32°44'25.48"N LONG. = 103°38'32.70"W NMSP EAST (FT) N = 633777.78 E = 753793.36
SEC. 22 T.18S., R.33E.		
KSI 22 FEDERAL 1H ELEV. = 3836.0' LAT. = 32°43'36.374"N (NAD83) LONG. = 103°38'55.841"W NMSP EAST (FT) N = 628800.98 E = 751848.38		
SW CORNER SEC. 22 LAT. = 32°43'32.98"N LONG. = 103°39'34.32"W NMSP EAST (FT) N = 628437.16 E = 748563.05	SURFACE LOCATION LAT. = 32°43'33.17"N LONG. = 103°38'32.66"W NMSP EAST (FT) N = 628489.64 E = 753830.69	

¹⁷ OPERATOR CERTIFICATION

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.

Signature: Spence Laird Date: 10/8/10

Printed Name: SPENCE LAIRD SPENCE.LAIRD@DVN.COM

¹⁸ SURVEYOR CERTIFICATION

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.

DATE OF SURVEY: JULY 2, 2010

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: ELIJOSE JARAMILLO, PLS 12797

SURVEY NO. 143

DRILLING PROGRAM**RECEIVED**

Devon Energy Production Company, LP

FEB 08 2011

KSI 22 Federal 1H**HOBBSOCD**

Surface Location: 330' FSL & 1980' FEL, Unit O, Sec 22 T18S R33E, Lea, NM

Bottom hole Location: 330' FNL & 1980' FEL, Unit B Sec 22 T18S R33E, Lea, NM

1. Geologic Name of Surface Formation

a. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a. Base Salt	3100	Water
b. Yates	3150	Oil
c. Queen	4250	Oil
d. Greyburg	4495	Oil
e. Delaware	5230	Oil
f. Bone Spring	7170	Oil
g. 1st Bone Spring Sd	8710	Oil
h. 2 nd Bone Spring Sd	9315	Oil
i. 2 nd Bone Spring Sd Lower	9560	Oil
j. 2 nd Bone Spring Sd Target	9660	Oil
k. 2 nd Bone Spring Lm	9750	Oil

Pool name: Corbin South Producing Formation: Bone Spring (Oil) Penetration Point: 9350'

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at ~~1350'~~^{1590'} and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 5250' and circulating cement to surface. The Bone Spring intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. Casing Program:*See COA*

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17 1/2"	0' - 1350' ^{1590'}	13 3/8"	0' - 1350' ^{1590'}	54.4#	STC	J-55
12 1/4"	1590' ^{1590'} - 5250'	9 5/8"	0' - 1350' ^{1590'} - 5250'	40#	LTC	N-80
8 3/4"	5250' - 9810' (PH)					
8 3/4"	0' - 9000'	5 1/2"	0 - 9000'	17#	LTC	P-110
8 3/4"	9000' - 14020'	5 1/2"	9000' - 14020'	17#	BTC	P-110

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13 3/8"	1.79	4.32	6.99
9 5/8"	1.23	2.30	5.09
9 5/8"	1.23	2.01	2.01

4. **Cement Program:**

Cementing Program for the Pilot Hole: Plug from 9100' to 9,810', 450 sacks Class H,
18 ppg with a .9 cu ft yield.

Note: All Cementing Programs have a minimum of 25% excess included in the amounts

13 3/8" Surface **Lead:** 735 sacks (40:60) Poz (Fly Ash):Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 5% bwow Sodium Chloride + 0.8% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.1% Fresh Water
Yield: 1.83 cf/sack. TOC @ surface.

Tail: 350 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Yield: 1.35 cf/sack.

9 5/8" Intermediate **Lead:** 1600 sacks (40:60) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water
Yield: 1.73 cf/sack. TOC @ surface.

Tail: 300 sacks (40:60) C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water
Yield: 1.35 cf/sack.

5 1/2" Production **1 St Stage**

Lead: 760cks 35:65 Poz Class C + 0.2% bwoc Sodium Metasilicate + 1.4% bwoc FL-62 + 0.4%
Yield: 2.00 cf/sack.

Tail: 1160acks 50:50 Poz Class C
Yield: 1.28 cf/sack

DV TOOL at ~6000'

2nd Stage

Lead: 110 sacks Poz Class C Cement + 0.125 lbs/sack Cello Flake + 3% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water
Yield: 2.89 cf/sk

Tail: 150 sacks (60:40) Poz Class C Cement + 1% bwow Sodium Chloride + .15% bwoc + 63.2% Fresh Water
Yield: 1.35 cf/sk

pilot hole plug?

TOC for All Strings:

Surface:	0'
Intermediate:	0'
Production	4700'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

5. **Pressure Control Equipment:**

BOP DESIGN: The 13 3/8" casing will have a 3,000# (Hydril) annular preventer which will be tested to 2000#. The blow out prevention system for the 9 5/8" casing will consist of a bag type (Hydril) preventer, a double ram preventer stack, and a rotating head. Both the Hydril and ram stack will be hydraulically operated. As shown in the attachment, the Surface Casing BOP will be a 3000 psi Hydril annular. It will be tested as a 2000 psi Hydril annular. The 9 5/8" BOP system will be rated at 5,000psi. Prior to drilling out the 9 5/8" intermediate shoe, the ram stack will be nipped up with 4.5" pipe rams installed. **The Hydril will be tested to 1000psi (high) and 250psi (low). Tests on the 5000psi BOP will be conducted per the BLM Drilling Operations Order #2. All testing will be performed by independent testers, not the rig pumps.**

The ram system will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5000 psi WP.

6. **Proposed Mud Circulation System**

See COA

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 1350' 1540'	8.4-9.0	32-34	NC	Fresh Water
^{1540'} 1350' - 5250'	10.0	28-30	NC	Brine
5250' - 14020'	8.6-9.2	28	NC-12	Fresh Water/Brine

The necessary mud products for weight addition and fluid loss control will be on location at all times.

7. **Auxiliary Well Control and Monitoring Equipment:**

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. **Logging, Coring, and Testing Program:**

See COA

- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- The open hole electrical logging program will be:

- i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
- ii. Total Depth to Surface Compensated Neutron with Gamma Ray
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area; therefore, no H₂S is anticipated to be encountered. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4600 psi and Estimated BHT 130°.

10. Anticipated Starting Date and Duration of Operations:

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



Project: Lea Co., New Mexico (Nad 83)
Site: KSI 22 Fed #1H
Well: KSI 22 Fed #1H
Wellbore: Lateral #1
Design: Design #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLog	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9066.68	0.00	0.00	9066.68	0.00	0.00	0.00	0.00	0.00	
3	9986.68	92.00	359.60	9639.29	592.94	-4.18	10.00	359.60	592.95	
4	14021.42	92.00	359.60	9498.48	4625.12	-32.64	0.00	0.00	4625.23	PBHL - TD (KSI22F#1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
PBHL - TD (KSI22F#1H)	9498.48	4625.12	-32.64	633426.09	751815.74	32° 44' 22.045 N	103° 38' 55.684 W	

ANNOTATIONS

TVD	MD	Annotation
9066.68	9066.68	KOP - Build 10°/100'
9639.29	9986.68	EOC - Hold 1:92.0° @ A:359.60°

WELL DETAILS: KSI 22 Fed #1H

Ground Level
3636.00
WELL @ 3856.00ft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	628600.98	751848.38	32° 43' 36.279 N	103° 38' 55.652 W	

Plan: Design #1 (KSI 22 Fed #1H/Lateral #1)

Created By: Mike Starkey Date: 9:05, October 08 2010
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____

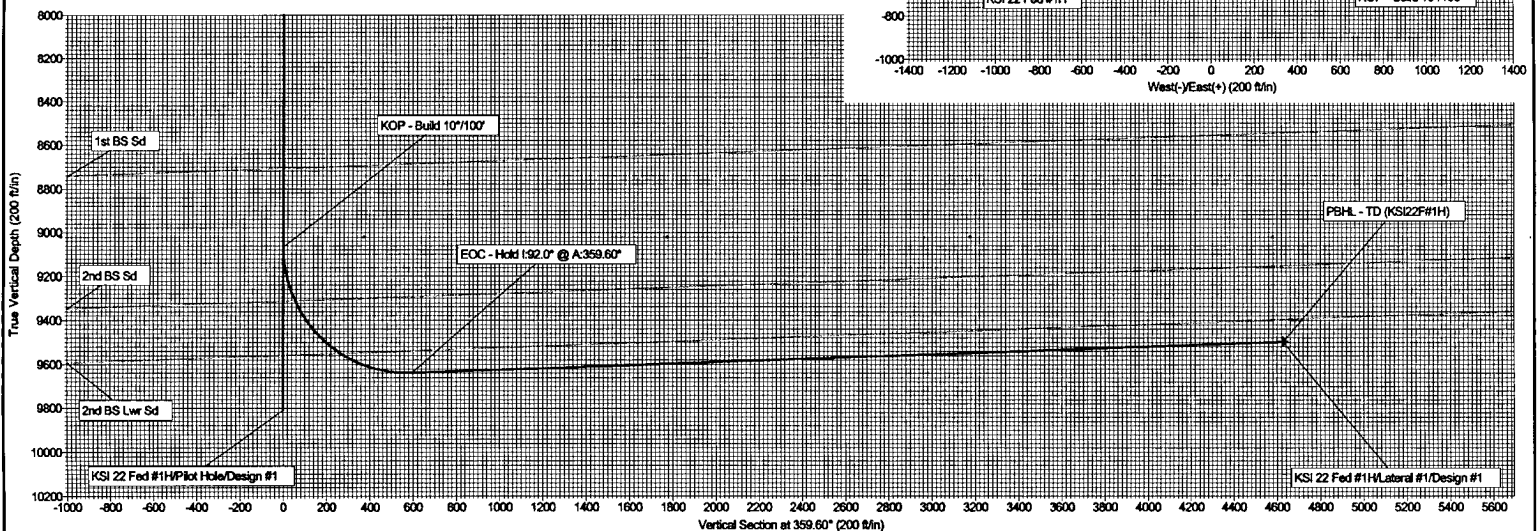
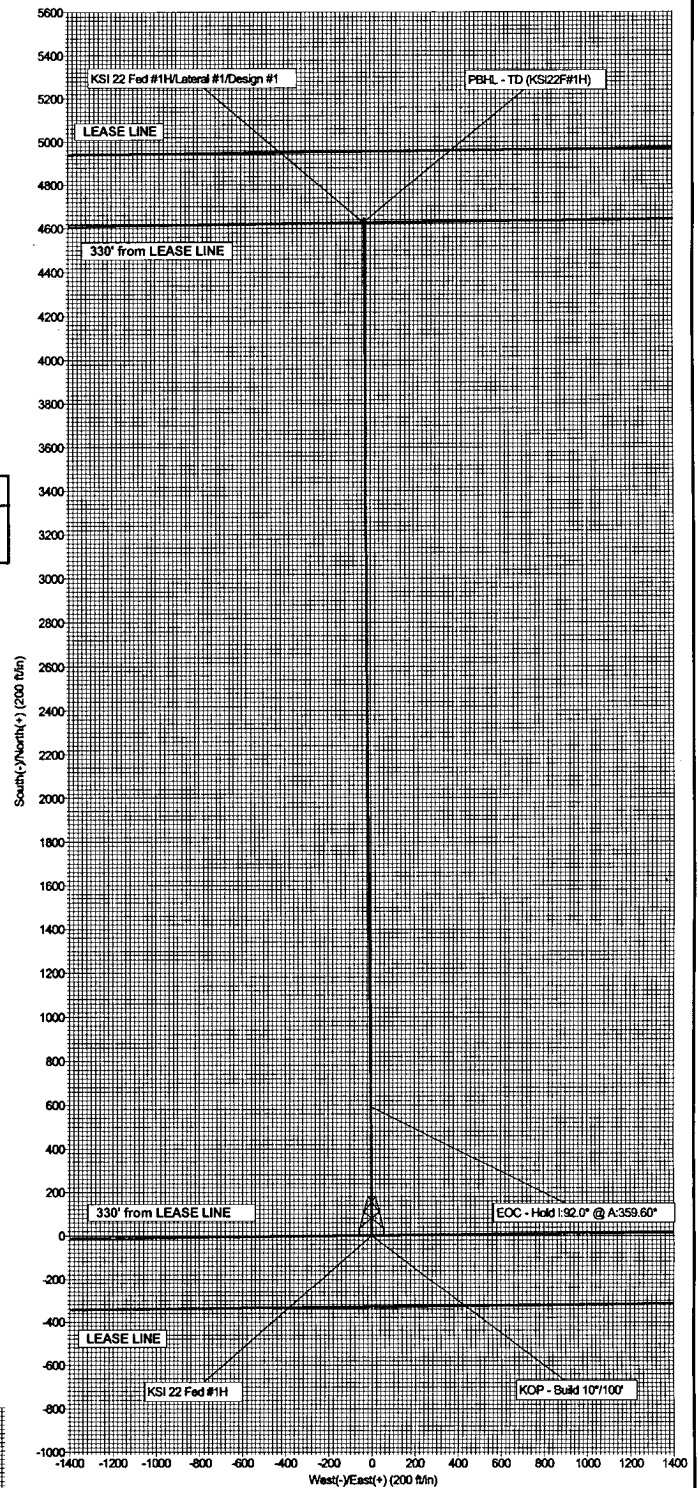
PROJECT DETAILS: Lea Co., New Mexico (Nad 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.36°

Magnetic Field
Strength: 49009.7nT
Dip Angle: 60.68°
Date: 10/08/2010
Model: IGRF200510





Devon Energy

Lea Co., New Mexico (Nad 83)

KSI 22 Fed #1H

KSI 22 Fed #1H

Lateral #1

Plan: Design #1

Standard Survey Report

08 October, 2010

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**DRILLING & MEASUREMENT
SERVICES**

**CUDD Drilling & Measurement Services****Survey Report**

Company:	Devon Energy	Local Co-ordinate Reference:	Site KSI 22 Fed #1H
Project:	Lea Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3856.00ft (Original Well Elev)
Site:	KSI 22 Fed #1H	MD Reference:	WELL @ 3856.00ft (Original Well Elev)
Well:	KSI 22 Fed #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Project	Lea Co., New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	KSI 22 Fed #1H, Sec 22, T-22S, R-33E		
Site Position:		Northing:	628,800.98 ft
From:	Map	Easting:	751,848.38 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 43' 36.279 N
		Longitude:	103° 38' 55.652 W
		Grid Convergence:	0.37 °

Well	KSI 22 Fed #1H		
Well Position	+N/-S	0.00 ft	Northing: 628,800.98 ft
	+E/-W	0.00 ft	Easting: 751,848.38 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,856.00 ft
		Ground Level:	3,836.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/08/10	7.73	60.68	49,010

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	359.60

Survey Tool Program	Date	10/08/10		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	8,900.00	Design #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
8,900.00	14,021.42	Design #1 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
3,150.00	0.00	0.00	3,150.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates SS									
4,250.00	0.00	0.00	4,250.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen SS									
4,495.00	0.00	0.00	4,495.00	0.00	0.00	0.00	0.00	0.00	0.00
Greyburg									
5,230.00	0.00	0.00	5,230.00	0.00	0.00	0.00	0.00	0.00	0.00
Formation 6									



CUDD Drilling & Measurement Services

Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site KSI 22 Fed #1H
Project:	Lea Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3856.00ft (Original Well Elev)
Site:	KSI 22 Fed #1H	MD Reference:	WELL @ 3856.00ft (Original Well Elev)
Well:	KSI 22 Fed #1H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,170.00	0.00	0.00	7,170.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring									
8,710.00	0.00	0.00	8,710.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS Sd									
9,066.68	0.00	0.00	9,066.68	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 10°/100'									
9,321.36	25.47	359.60	9,313.06	55.68	-0.39	55.68	10.00	10.00	0.00
2nd BS Sd									
9,643.15	57.65	359.60	9,550.70	266.35	-1.88	266.35	10.00	10.00	0.00
2nd BS Lwr Sd									
9,986.68	92.00	359.60	9,639.29	592.94	-4.18	592.95	10.00	10.00	0.00
EOC - Hold 1:92.0° @ A:359.60°									
14,021.42	92.00	359.60	9,498.48	4,625.12	-32.64	4,625.23	0.00	0.00	0.00
PBHL - TD (KSI22F#1H)									

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL - TD (KSI22F#1H)	0.00	0.00	9,498.48	4,625.12	-32.64	633,426.09	751,815.74	32° 44' 22.045 N	103° 38' 55.684 W
- plan hits target center									
- Point									

Formations

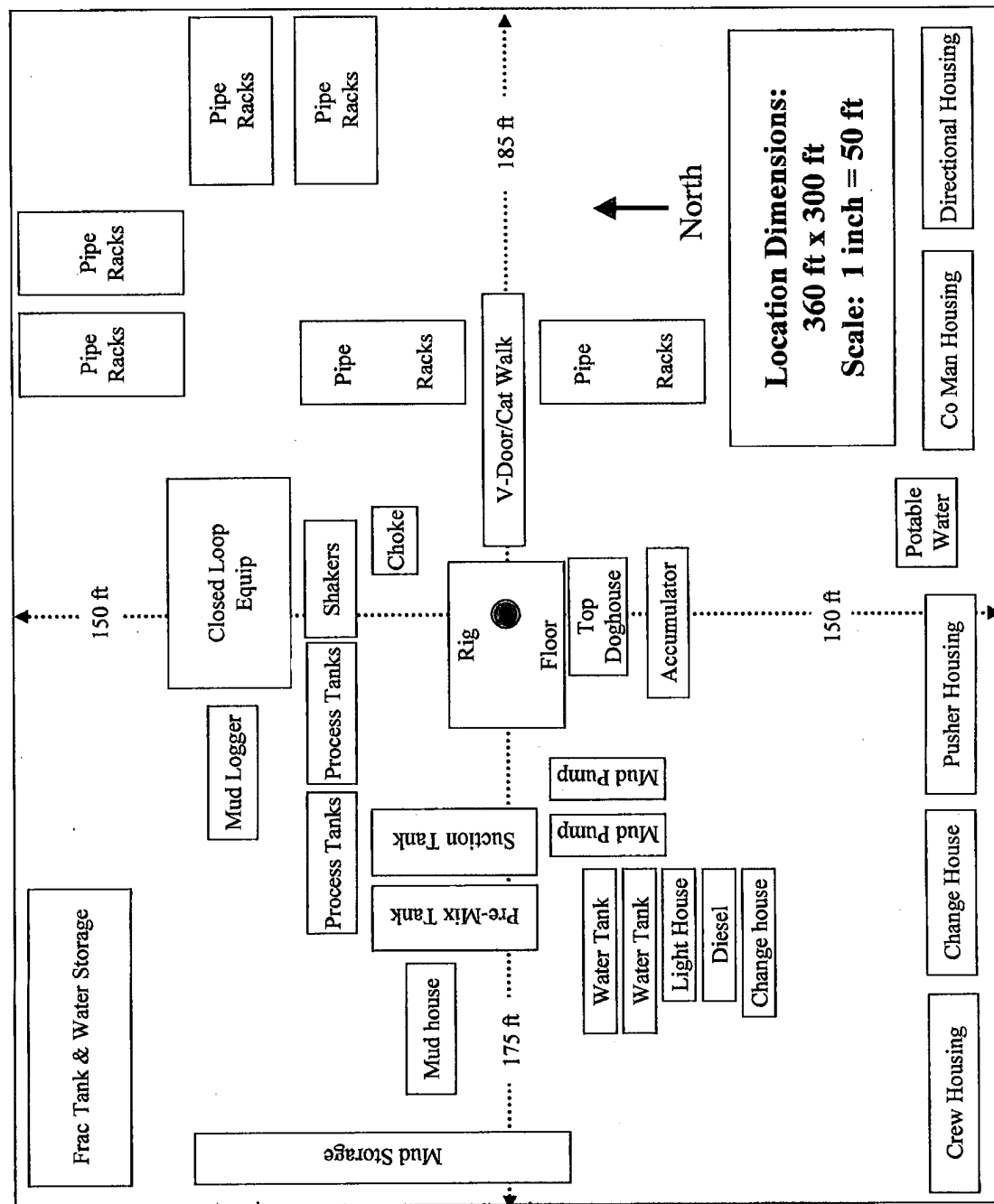
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,100.00	3,100.00	Base Salt		-2.00	
3,150.00	3,150.00	Yates SS		-2.00	
4,250.00	4,250.00	Queen SS		-2.00	
4,495.00	4,495.00	Greyburg		-2.00	
5,230.00	5,230.00	Formation 6		-2.00	
7,170.00	7,170.00	Bone Spring		-2.00	
8,710.00	8,710.00	1st BS Sd		-2.00	
9,321.36	9,315.00	2nd BS Sd		-2.00	
9,643.15	9,560.00	2nd BS Lwr Sd		-2.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,066.68	9,066.68	0.00	0.00	KOP - Build 10°/100'
9,986.68	9,639.29	592.94	-4.18	EOC - Hold 1:92.0° @ A:359.60°

Checked By: _____ Approved By: _____ Date: _____

Conventional Rig Location Layout





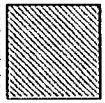
devon

Proposed Interim Site Reclamation

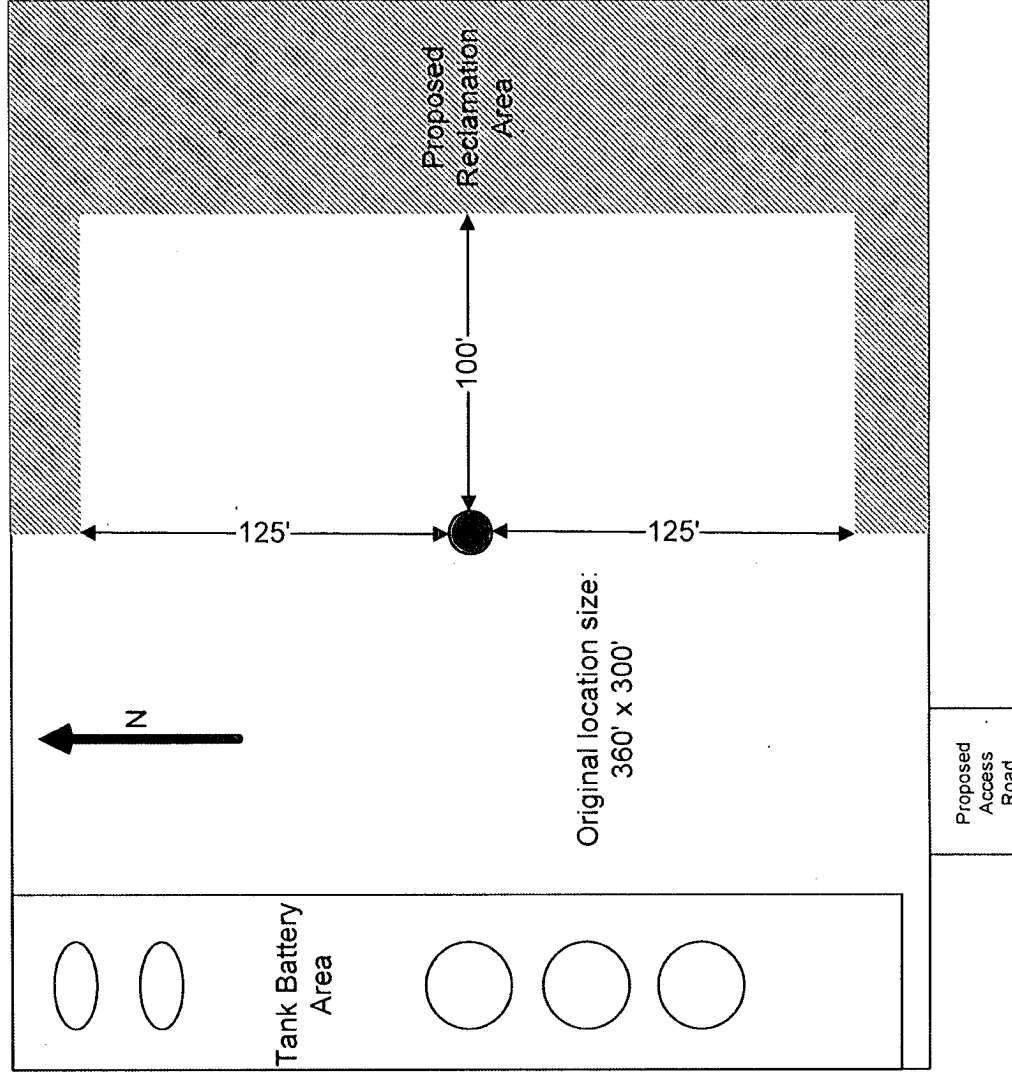
Devon Energy Production Co.

KSI 22 Federal 1H
330' FSL & 1,980' FEL
Sec. 22 - T18S - R33E
Lea County, NM

Proposed
Reclamation Area



1" : 60'



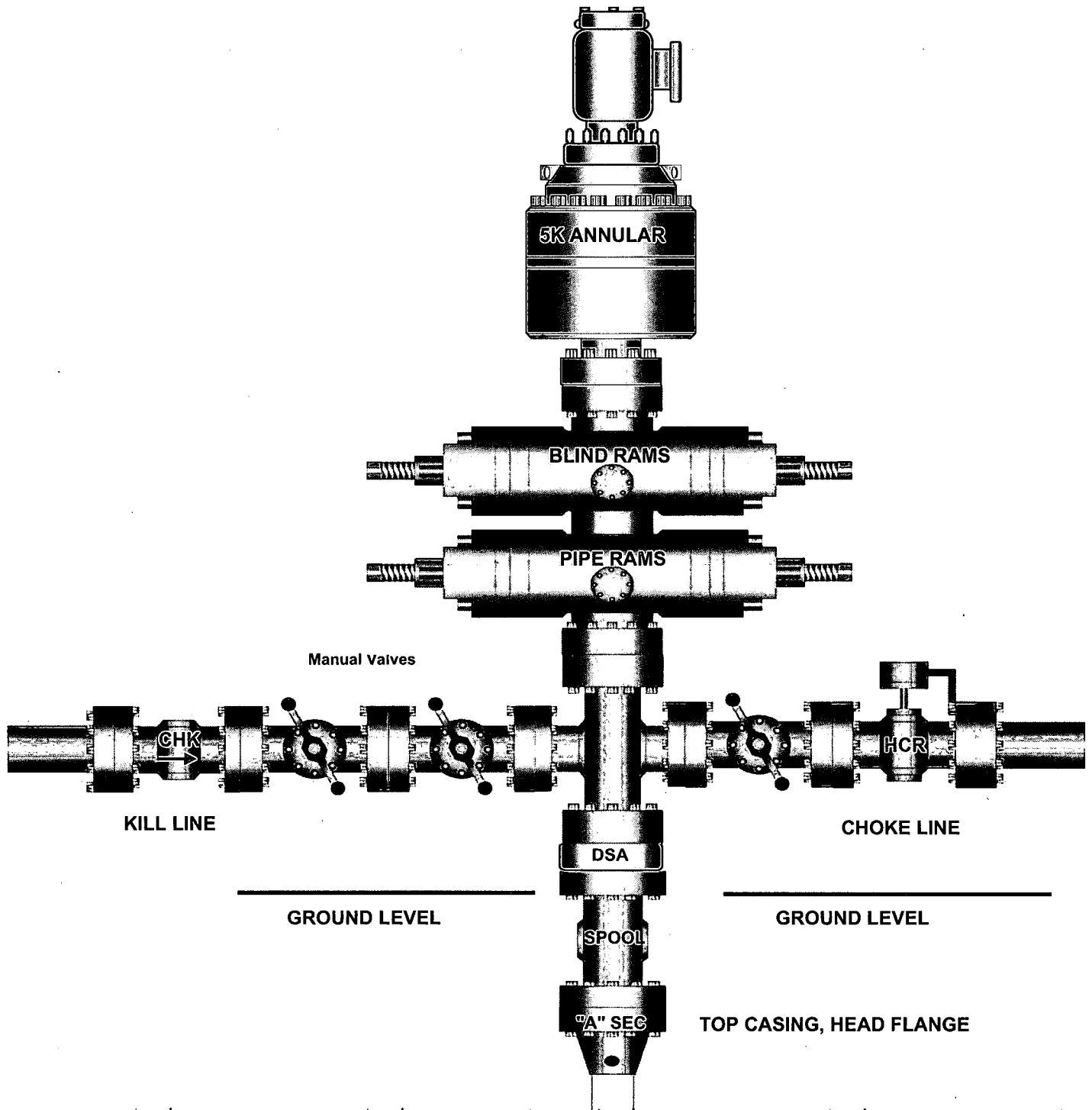
Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP

KSI 22 Federal 1H

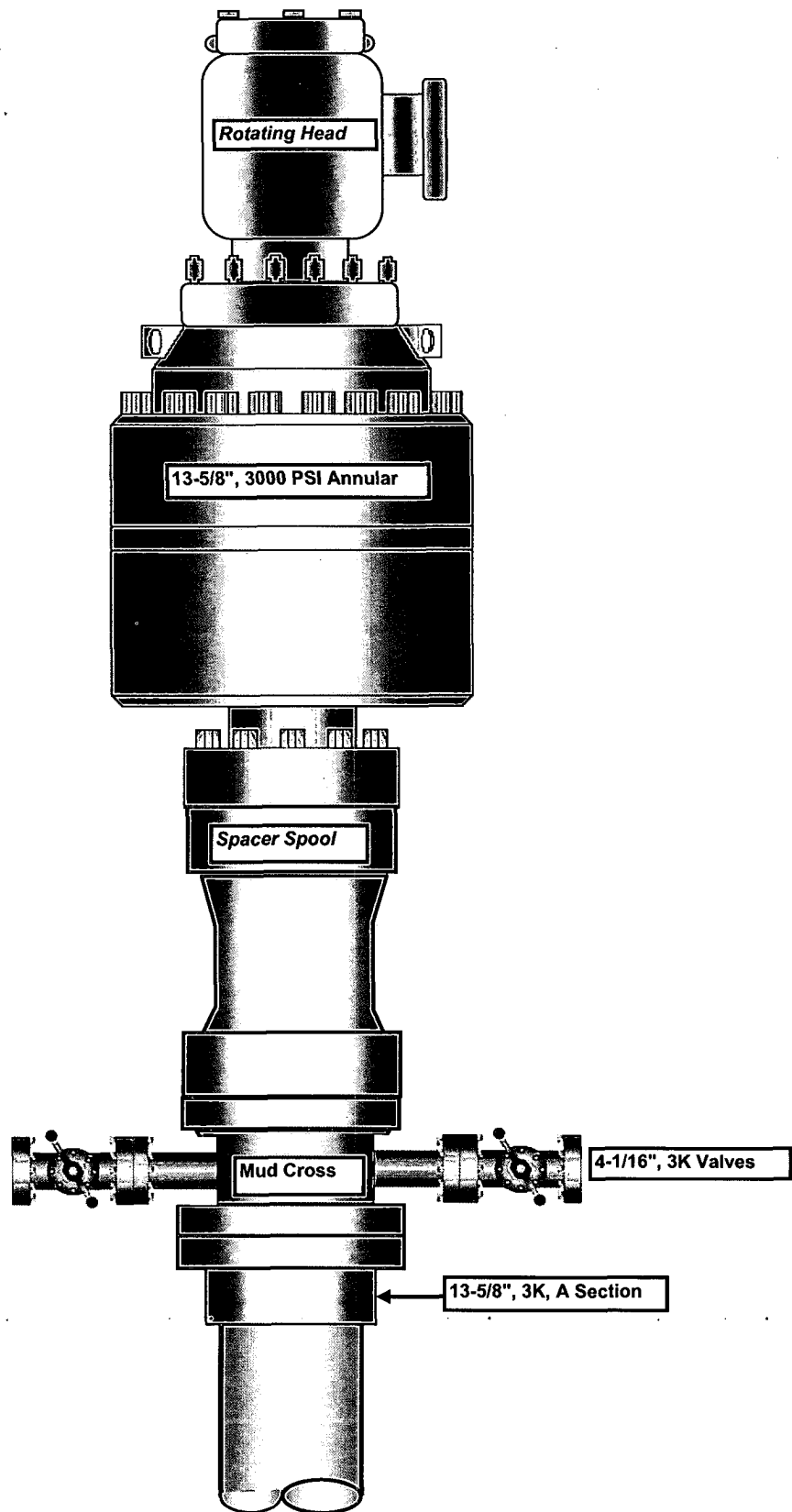
Surface Location: 330' FSL & 1980' FEL, Unit O, Sec 22 T18S R33E, Lea, NM
Bottom hole Location: 330' FNL & 1980' FEL, Unit B Sec 22 T18S R33E, Lea, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

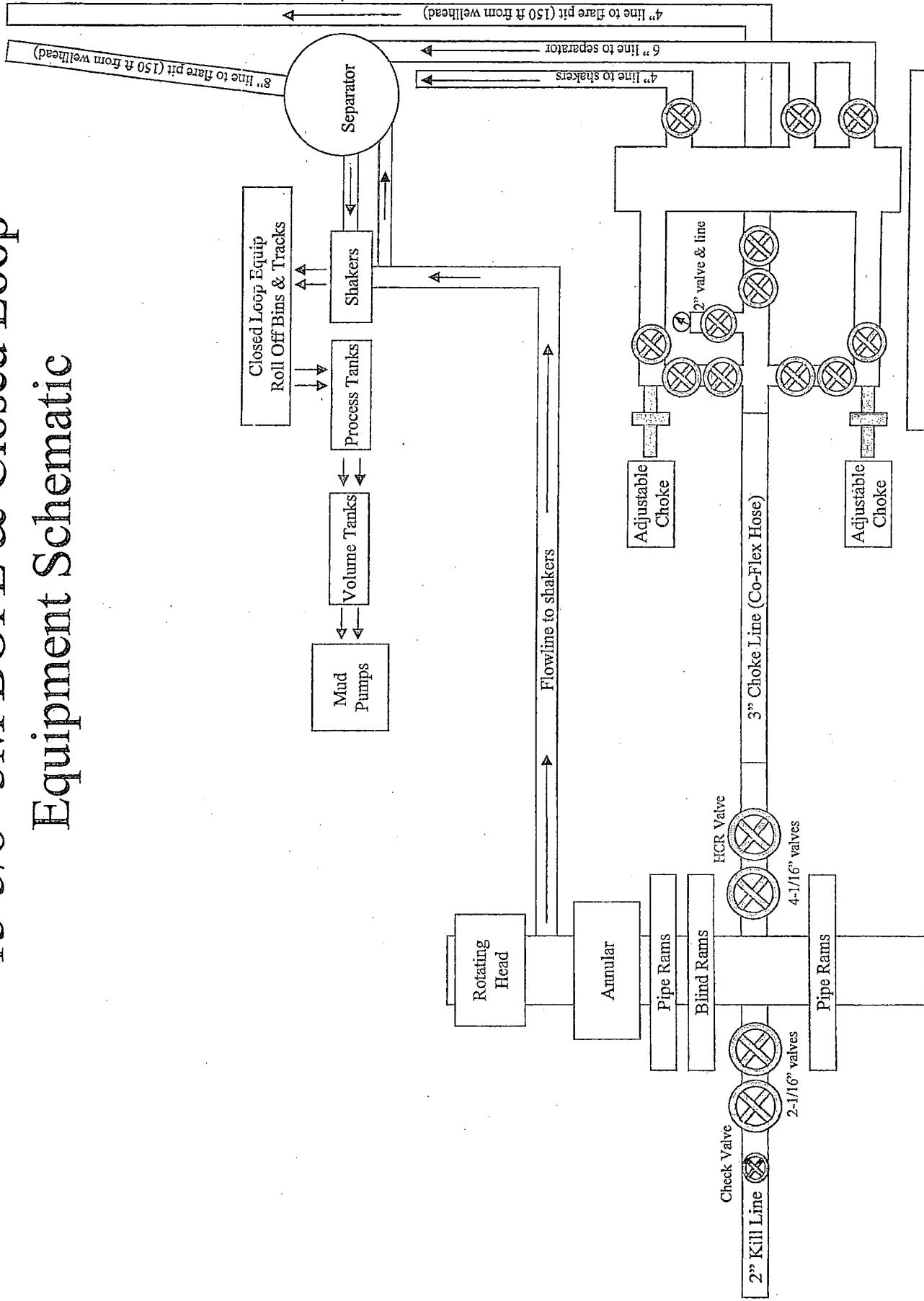
11" x 5,000 psi BOP Stack



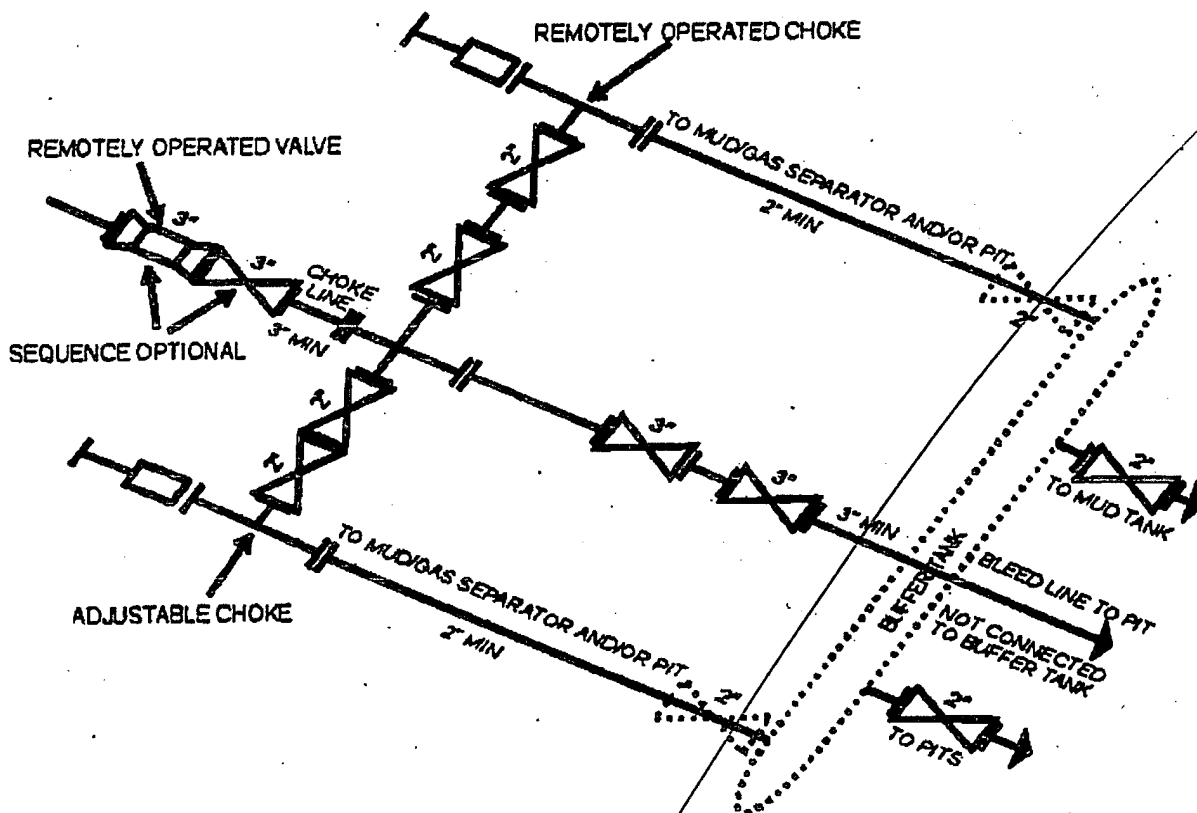
13-5/8" 3K Annular



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



Note: all valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

over

Per BLM: Operator is to supply an accurate manifold schematic and not general example from Onshore Order #2.