

12-583

OCD-ARTESIA

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Form 3160-3
(April 2004)

JUL 12 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMLC-029435B / NMLC-029435A	
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 APACHE CORPORATION		7. If Unit or CA Agreement, Name and No.	
3a. Address 303 VETERANS AIRPARK LN #3000 MIDLAND, TX 79705		8. Lease Name and Well No. RAVEN FEDERAL COM # 10H <39333>	
3b. Phone No. (include area code) 432-818-1167		9. API Well No. 30-015- 40466 TCS 7/13/2012	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 2218' FNL & 220' FWL Sec: 8 UL: E NMLC-029435B At proposed prod zone 2218' FNL & 330' FWL Sec: 7 Lot: 2 NMLC-029435A		10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO	
14. Distance in miles and direction from nearest town or post office* APPROX 6.6 MILES NORTHEASWT OF LOCO HILLS, NM		11. Sec., T. R. M. or Blk. and Survey or Area UL: E SEC: 8 T17S R31E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 220'	16. No. of acres in lease 1885 ACRES	17. Spacing Unit dedicated to this well 191.68 ACRES	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ~25'	19. Proposed Depth TVD- 4825' MD- 9627'	20. BLM/BIA Bond No. on file BLM - CO - 1463 NATIONWIDE	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3727'	22. Approximate date work will start* As Soon As Approved	23. Estimated duration ~ 25 DAYS	
24. Attachments			

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Sorina L Flores</i>	Name (Printed/Typed) SORINA L. FLORES	Date 5/30/12
Title SUPV OF DRILLING SERVICES		
Approved by (Signature) <i>James A. Ames</i>	Name (Printed/Typed) James A. Ames	Date JUL 10 2012
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)

Roswell Controlled Water Basin

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

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
620 E. GREENE STREET
CARLSBAD, NM 88220

OPERATOR CERTIFICATION

I HERBY 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 the 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 2ND day of MAY, 2012

Well: RAVEN FEDERAL 10H

Operator Name: APACHE CORPORATION

Signature:  Printed Name: TERRY WEST

Title: Drilling Engineer Date: _____

Email (optional): terry.west@apachecorp.com

Street or Box: 303 Veterans Airpark Ln., Ste. 3000

City, State, Zip Code: Midland, TX 79705

Telephone: 432-818-1114

Field Representative (if not above signatory): _____

Address (if different from above): _____

Telephone (if different from above): _____

Email (optional): _____

Agents not directly employed by the operator must submit a letter from the operator authorizing that the agent to act or file this application on their behalf.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40466	Pool Code 96831	Pool Name Cedar Lake; Glorieta - Yeso
Property Code 39333	Property Name RAVEN FEDERAL COM	Well Number 10H
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3727'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	8	17-S	31-E		2218	NORTH	220	WEST	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
2	7	17-S	31-E		2218	NORTH	330	WEST	EDDY

Dedicated Acres 191.68	Joint or Infill	Consolidation Code	Order No.
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7/10 9627

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><u>Sorina P. Flores</u> 5/2/12 Signature Date</p> <p><u>Sorina W. Flores</u> Printed Name</p> <p><u>sorina.flores@apachecorp.com</u> E-mail Address</p>
<p>CORNER COORDINATES TABLE</p> <p>Ⓐ - Y=674101.9 N, X=628075.2 E</p> <p>Ⓑ - Y=674135.1 N, X=633078.6 E</p> <p>Ⓒ - Y=672781.8 N, X=628079.2 E</p> <p>Ⓓ - Y=672814.9 N, X=638086.3 E</p> <p>DETAIL</p> <p>3729.7' 3735.2'</p> <p>3726.2' 3726.7'</p> <p>600'</p> <p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=673239.7 N X=633303.5 E</p> <p>LAT=32.850067° N LONG=103.899264° W</p> <p>LAT=32° 51' 00" N LONG=103° 53' 57" W</p> <p>BOTTOM HOLE LOCATION Y=673206.7 N X=628407.9 E</p>	<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>MARCH 27, 2012</p> <p>Date of Survey</p> <p>Signature & Seal of Professional Surveyor:</p> <p><u>Ronald J. Eidson</u> 03/29/2012</p> <p>Certificate Number: Gary C. Eidson 12641 Ronald J. Eidson 3239</p> <p>AF WSC W.O.: 12.11.0632</p>

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

APACHE CORPORATION (OGRID: 873) RAVEN FEDERAL #10H

Lease #: NMLC-029435B Projected TVD: ~ 4825' MD: ~ 9627' GL: 3727'
SHL: 2218' FNL & 220' FWL UL: E SEC: 8 BHL: 2063' FNL & 330' FEL LOT: 2 SEC: 7
T17S R31E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION: Eolian/Piedmond Alluvial Deposits

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Quaternary Aeolian	Surf	Queen	2412'
Rustler	421'	Grayburg	2819'
Salt Top	502'	San Andres	3136' (Oil)
Salt Bottom	1346'	Glorieta	4611'
Yates	1522'	Yeso (Paddock)	4675' (Oil)
Seven Rivers	1799'	TD	TVD ~4825' MD ~9627'

Avg Depth to Ground Water: ~91'

Fresh water & prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth & adequately protected. All oil & gas shows within zones of correlative rights will be tested to determine commercial potential. Surface fresh water sands will be protected by setting 13-3/8" csg @ 450' & circ cmt back to surface. Hydrocarbon zones will be protected by setting 9-5/8" csg @ ~ 3500', if water flow is encountered, then 7" @ ~4510'; and a 4-1/2" liner from the 7" csg though the KOP @ ~ 4513'; the curve & on to TD @ ~9627' MD.

3. CASING PROGRAM: All casing is new & API approved

STRING	HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
Surface	17-1/2"	0' - 450'	13-3/8"	48#	STC	H-40	1.0	1.21	1.8
Intermediate	12-1/4"	0' - 3500'	9-5/8"	36# 36#	STC	J-55	1.0	1.21	1.8
Production	8-3/4"	0' - 4510'	7"	26#	LTC	J-55	1.0	1.21	1.8
Production Liner	6-1/8"	4410' - 9627'	4.5"	11.6#	LTC	L-80	1.125	1.21	1.8

*Contingency: 9-5/8" string will only be ran if water flows are encountered.
run

4. CEMENT PROGRAM:

A. Surface (TOC - Surface) **100% excess cmt to surf Cmt with:**

Lead: 170 sx Class H 50/50 w/10% Gel + 0.5# Star Seal + 0.25% De-foamer + 3% Salt (11.9 wt, 2.31 yld)

Compressive Strengths: 12 hr - 589 psi 24 hr - 947 psi

Tail: 250 sx Class C w/ 0.25% De-foamer (14.8 wt, 1.33 yld)

Compressive Strengths: 12 hr - 813 psi 24 hr - 1205 psi

B. Intermediate (TOC - Surface) **50% excess cmt to surf. Cmt with:**

Lead: 550 sx Class H 50/50 w/10% Gel + 2# Star Seal + 0.25% De-foamer (11.9 wt, 2.24 yld)

Compressive Strengths: 12 hr - 540 psi 24 hr - 866 psi

Tail: 380 sx Class C w/ 0.25% De-foamer (14.8 wt, 1.34 yld)

Compressive Strengths: 12 hr - 813 psi 24 hr - 1205 psi

(May-use a DVT & modify cmt program for a 2 stage job, if a strong water flow is encountered)

Not approved for
DV Tool

C. Production (TOC: ~500' from surface) **35% excess cmt Cmt with:**

Lead: 270 sx Class H 50/50 w/10% Gel + 2# Star Seal + 0.25% Defoamer (11.9 wt, 2.24 yld)

Compressive Strengths: 12 hr - 540 psi 24 hr - 866 psi

Tail: 320 sx Class C w/1% CaCL + 0.25% De-foamer (14.8 wt, 1.34 yld)

Compressive Strengths: 12 hr - 813 psi 24 psi - 1205 psi

**Contingency: If 9-5/8" string is not ran, the following cmt program will be used for the Production string & will bring cmt to surface using 35% excess:*

Lead: 1167 sx Class H 50/50 w/10% Gel + 2# Star Seal + 0.25% Defoamer (11.9 wt, 2.24 yld)
Compressive Strengths: **12 hr** – 540 psi **24 hr** – 866 psi

Tail: 202 sx Class C w/1% CaCL + 0.25% De-foamer (14.8 wt, 1.34 yld)
Compressive Strengths: **12 hr** – 813 psi **24 hr** – 1205 psi

- D. Apache proposes to run a multiple packer system on the 4-1/2" production liner which will tie back into the 7" string (No Cmt). An isolation packer will be set on either side of the Glorieta top & no ports will be placed between this isolation packer & the liner top packer. An isolation packer will be set at or a few feet inside the lease offset limit & no ports will be placed between this isolation packer & the liner top packer, if the adjoining leases are not going to be unitized.

**** The above cmt volumes could be revised pending caliper measurement from open hole logs. For Surface csg: If cmt does not circ to surface, the appropriate BLM office shall be notified. The top of cement shall be determined by either a temperature survey or by tagging, as directed by the BLM for the specific set of circumstances. Cement will then be brought to surface via either 1" or ready mix operations, as specified by the BLM at that time.**

See COA

5. PROPOSED CONTROL EQUIPMENT

"EXHIBIT 3" shows a 13-5/8" 3M psi WP BOP consisting of at least annular bag type preventer. This BOP will be nipped up on the 13-3/8" surface csg head & tested to 70% of casing burst. After the 9-5/8" intermediate csg is set & cemented (or after the 7" string, if the 9-5/8" casing isn't ran), either a 13-5/8" or an 11" 3M BOP consisting of an annular bag type preventer, middle blind rams and bottom pipe rams will be installed in place of the original BOP & utilized continuously until TD is reached. The BOP will be tested at 2000 psi, maximum surface pressure is not expected to exceed 2M psi, BHP is calculated to be approximately 2123 psi. *All BOP's & associated equipment will be tested as per BLM *Drilling Operations Order #2*. The BOP will be operated & checked each 24 hr period & blind rams will be operated & checked when the drill pipe is out of the hole. Functional tests will be documented on the daily driller's log. "EXHIBIT 3" also shows a 3M psi choke manifold with a 3" blow down line. Full opening stabbing valve & Kelly cock will be on derrick floor in case of need. No abnormal pressures or temperatures are expected in this well. No nearby wells have encountered any problems.

6. PROPOSED MUD CIRCULATION SYSTEM: (Closed Loop System)

INTERVAL	MW (ppg)	VISC (sec/qt)	FLUID LOSS (cc)	MUD TYPE
0' -450'	8.6 – 8.8	28 – 30	NC	FW
450' to 3500' *	9.8 – 10.2	28 – 34	NC	Brine
3500' – 4510'	8.6 – 9.1	28 – 36	NC	FW/Brine
4510' – 9627'	8.6 – 9.1	28 – 40	15 - NC	FW/Brine

** Contingency: If 9-5/8" string is not run, these mud properties will be continued to the next casing seat instead of those indicated on the next line..*

**** The necessary mud products for weight addition and fluid loss control will be on location at all times. In order to run open hole logs & casing, the above mud properties may have to be altered to meet these needs.**

7. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

11" x 3000 psi Double BOP/Blind & pipe ram (3M BOP/BOPE to be used as 2M system)
4-1/2" x 3000 psi Kelly valve
11" x 3000 psi mud cross – H2S detector on production hole
Gate-type safety valve 3" choke line from BOP to manifold
2" adjustable chokes – 3" blow down line
Fill up line as per Onshore Order 2

8. LOGGING, CORING & TESTING PROGRAM: *See COA*

- OH logs: Dual Laterolog, MSFL, CNL, Litho-Density, Gamma Ray, Caliper & Sonic from TD back to last csg shoe.
- Run CNL, Gamma Ray from 8-5/8" csg shoe back to surface.
- No cores, DST's or mud logger are planned at this time.
- Additional testing will be initiated subsequent to setting the 5-1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows & drill stem tests.

9. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. There is known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of *Onshore Oil & 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: 2123 psi and estimated BHT: 115°.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Road and location construction will begin after BLM has approved APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take ~ 25 days. If production casing is run then an additional 90 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

11. OTHER FACETS OF OPERATION:

After running csg, cased hole Gamma Ray, Neutron Collar logs will be run from TD back to all possible productive zones. The Cedar Lake; Glorieta-Yeso formation will be perforated and stimulated in order to establish production. The well will be swab tested & potentialized as an oil well.

Apache Corporation

Eddy County, NM

Raven Federal

Raven Federal # 10H

Raven Federal #10H

Plan: Plan 1 05-01-2012

Standard Planning Report (Field)

01 May, 2012

Planning Report

Database:	GCR DB 5000	Local Co-ordinate Reference:	Well Raven Federal # 10H
Company:	Apache Corporation	TVD Reference:	WELL @ 3740.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3740.00usft (Original Well Elev)
Site:	Raven Federal	North Reference:	Grid
Well:	Raven Federal # 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Raven Federal # 10H		
Design:	Plan 105-01-2012		

Project	Eddy County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Raven Federal		
Site Position:		Northing:	673,239.70 usft
From:	Map	Easting:	633,303.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 0.2430 N
		Longitude:	103° 53' 57.3509 W
		Grid Convergence:	0.24 °

Well	Raven Federal # 10H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 51' 0.2430 N
		Longitude:	103° 53' 57.3509 W
		Ground Level:	3,727.00 usft

Wellbore	Raven Federal # 10H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	04/30/12	7.68
			Dip Angle
			(°)
			60.69
			Field Strength
			(nT)
			48,867

Design	Plan 105-01-2012		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			269.61

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,513.03	0.00	0.00	4,513.03	0.00	0.00	0.00	0.00	0.00	0.00	
5,113.03	90.00	269.61	4,895.00	-2.60	-381.96	15.00	15.00	0.00	269.61	10H Landing Pt
5,142.85	90.89	269.61	4,894.77	-2.80	-411.78	3.00	3.00	0.01	0.26	
7,370.17	90.89	269.61	4,860.00	-17.80	-2,638.78	0.00	0.00	0.00	0.00	10H Mid Pt
9,627.31	90.88	269.61	4,825.00	-33.00	-4,895.60	0.00	0.00	0.00	-180.00	10H BHL

Planning Report

Database:	CGR DB v5000	Local Co-ordinate Reference:	Well Raven Federal # 10H
Company:	Apache Corporation	TVD Reference:	WELL @ 3740.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3740.00usft (Original Well Elev)
Site:	Raven Federal	North Reference:	Grid
Well:	Raven Federal # 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Raven Federal # 10H		
Design:	Plan 1 05-01-2012		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	3,740.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler										
421.00	0.00	0.00	421.00	3,319.00	0.00	0.00	0.00	0.00	0.00	0.00
T/Salt										
502.00	0.00	0.00	502.00	3,238.00	0.00	0.00	0.00	0.00	0.00	0.00
B/Salt										
1,346.00	0.00	0.00	1,346.00	2,394.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates										
1,522.00	0.00	0.00	1,522.00	2,218.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres										
3,136.00	0.00	0.00	3,136.00	604.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP=4513'										
4,513.03	0.00	0.00	4,513.03	-773.03	0.00	0.00	0.00	0.00	0.00	0.00
4,590.00	11.55	269.61	4,589.48	-849.48	-0.05	-7.73	7.73	15.00	15.00	0.00
Glorieta										
4,601.80	13.32	269.61	4,601.00	-861.00	-0.07	-10.27	10.27	15.00	15.00	0.00
Paddock										
4,667.15	23.12	269.61	4,663.00	-923.00	-0.21	-30.67	30.67	15.00	15.00	0.00
4,680.00	25.05	269.61	4,674.73	-934.73	-0.24	-35.92	35.92	15.00	15.00	0.00
4,770.00	38.55	269.61	4,751.05	-1,011.05	-0.57	-83.22	83.23	15.00	15.00	0.00
4,860.00	52.05	269.61	4,814.21	-1,074.21	-1.00	-147.04	147.05	15.00	15.00	0.00
4,950.00	65.55	269.61	4,860.74	-1,120.74	-1.52	-223.84	223.85	15.00	15.00	0.00
5,040.00	79.05	269.61	4,888.04	-1,148.04	-2.11	-309.38	309.39	15.00	15.00	0.00
Landing Pt.=5113'										
5,113.03	90.00	269.61	4,895.00	-1,155.00	-2.60	-381.96	381.97	15.00	15.00	0.00
5,130.00	90.51	269.61	4,894.93	-1,154.93	-2.72	-398.93	398.94	3.00	3.00	0.01
Hold 60.9° line=5143'										
5,142.85	90.89	269.61	4,894.77	-1,154.77	-2.80	-411.78	411.79	3.00	3.00	0.01
5,220.00	90.89	269.61	4,893.56	-1,153.56	-3.32	-488.92	488.93	0.00	0.00	0.00
5,310.00	90.89	269.61	4,892.16	-1,152.16	-3.93	-578.91	578.92	0.00	0.00	0.00
5,400.00	90.89	269.61	4,890.76	-1,150.75	-4.53	-668.89	668.91	0.00	0.00	0.00
5,490.00	90.89	269.61	4,889.35	-1,149.35	-5.14	-758.88	758.89	0.00	0.00	0.00
5,580.00	90.89	269.61	4,887.95	-1,147.95	-5.75	-848.87	848.89	0.00	0.00	0.00
5,670.00	90.89	269.61	4,886.54	-1,146.54	-6.35	-938.85	938.88	0.00	0.00	0.00
5,760.00	90.89	269.61	4,885.14	-1,145.14	-6.96	-1,028.84	1,028.87	0.00	0.00	0.00
5,850.00	90.89	269.61	4,883.73	-1,143.73	-7.56	-1,118.83	1,118.85	0.00	0.00	0.00
5,940.00	90.89	269.61	4,882.33	-1,142.33	-8.17	-1,208.82	1,208.84	0.00	0.00	0.00
6,030.00	90.89	269.61	4,880.92	-1,140.92	-8.78	-1,298.80	1,298.83	0.00	0.00	0.00
6,120.00	90.89	269.61	4,879.52	-1,139.52	-9.38	-1,388.79	1,388.82	0.00	0.00	0.00
6,210.00	90.89	269.61	4,878.11	-1,138.11	-9.99	-1,478.78	1,478.81	0.00	0.00	0.00
6,300.00	90.89	269.61	4,876.71	-1,136.71	-10.59	-1,568.76	1,568.80	0.00	0.00	0.00
6,390.00	90.89	269.61	4,875.30	-1,135.30	-11.20	-1,658.75	1,658.79	0.00	0.00	0.00
6,480.00	90.89	269.61	4,873.90	-1,133.90	-11.81	-1,748.74	1,748.78	0.00	0.00	0.00
6,570.00	90.89	269.61	4,872.49	-1,132.49	-12.41	-1,838.72	1,838.77	0.00	0.00	0.00
6,660.00	90.89	269.61	4,871.09	-1,131.09	-13.02	-1,928.71	1,928.76	0.00	0.00	0.00
6,750.00	90.89	269.61	4,869.68	-1,129.68	-13.62	-2,018.70	2,018.74	0.00	0.00	0.00
6,840.00	90.89	269.61	4,868.28	-1,128.28	-14.23	-2,108.69	2,108.73	0.00	0.00	0.00
6,930.00	90.89	269.61	4,866.87	-1,126.87	-14.84	-2,198.67	2,198.72	0.00	0.00	0.00
7,020.00	90.89	269.61	4,865.47	-1,125.47	-15.44	-2,288.66	2,288.71	0.00	0.00	0.00
7,110.00	90.89	269.61	4,864.06	-1,124.06	-16.05	-2,378.65	2,378.70	0.00	0.00	0.00
7,200.00	90.89	269.61	4,862.66	-1,122.66	-16.65	-2,468.63	2,468.69	0.00	0.00	0.00
7,290.00	90.89	269.61	4,861.25	-1,121.25	-17.26	-2,558.62	2,558.68	0.00	0.00	0.00
MDP=7370'										

Planning Report

Database:	CCR DB V5000	Local Co-ordinate Reference:	Well Raven Federal # 10H
Company:	Apache Corporation	TVD Reference:	WELL @ 3740.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3740.00usft (Original Well Elev)
Site:	Raven Federal	North Reference:	Grid
Well:	Raven Federal # 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Raven Federal # 10H		
Design:	Plan 1 05-01-2012		

Planned Survey:										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,370.17	90.89	269.61	4,860.00	-1,120.00	-17.80	-2,638.78	2,638.84	0.00	0.00	0.00
7,380.00	90.89	269.61	4,859.85	-1,119.85	-17.87	-2,648.61	2,648.67	0.00	0.00	0.00
7,470.00	90.89	269.61	4,858.44	-1,118.44	-18.47	-2,738.59	2,738.66	0.00	0.00	0.00
7,560.00	90.89	269.61	4,857.04	-1,117.04	-19.08	-2,828.58	2,828.65	0.00	0.00	0.00
7,650.00	90.89	269.61	4,855.64	-1,115.64	-19.68	-2,918.57	2,918.64	0.00	0.00	0.00
7,740.00	90.89	269.61	4,854.23	-1,114.23	-20.29	-3,008.56	3,008.62	0.00	0.00	0.00
7,830.00	90.89	269.61	4,852.83	-1,112.83	-20.90	-3,098.54	3,098.61	0.00	0.00	0.00
7,920.00	90.89	269.61	4,851.43	-1,111.43	-21.50	-3,188.53	3,188.60	0.00	0.00	0.00
8,010.00	90.89	269.61	4,850.03	-1,110.03	-22.11	-3,278.52	3,278.59	0.00	0.00	0.00
8,100.00	90.89	269.61	4,848.63	-1,108.63	-22.72	-3,368.50	3,368.58	0.00	0.00	0.00
8,190.00	90.89	269.61	4,847.23	-1,107.23	-23.32	-3,458.49	3,458.57	0.00	0.00	0.00
8,280.00	90.89	269.61	4,845.84	-1,105.84	-23.93	-3,548.48	3,548.56	0.00	0.00	0.00
8,370.00	90.89	269.61	4,844.44	-1,104.44	-24.53	-3,638.47	3,638.55	0.00	0.00	0.00
8,460.00	90.89	269.61	4,843.04	-1,103.04	-25.14	-3,728.45	3,728.54	0.00	0.00	0.00
8,550.00	90.89	269.61	4,841.65	-1,101.65	-25.75	-3,818.44	3,818.53	0.00	0.00	0.00
8,640.00	90.89	269.61	4,840.25	-1,100.25	-26.35	-3,908.43	3,908.52	0.00	0.00	0.00
8,730.00	90.89	269.61	4,838.86	-1,098.86	-26.96	-3,998.41	3,998.50	0.00	0.00	0.00
8,820.00	90.89	269.61	4,837.46	-1,097.46	-27.56	-4,088.40	4,088.49	0.00	0.00	0.00
8,910.00	90.89	269.61	4,836.07	-1,096.07	-28.17	-4,178.39	4,178.48	0.00	0.00	0.00
9,000.00	90.89	269.61	4,834.68	-1,094.68	-28.78	-4,268.38	4,268.47	0.00	0.00	0.00
9,090.00	90.89	269.61	4,833.29	-1,093.29	-29.38	-4,358.36	4,358.46	0.00	0.00	0.00
9,180.00	90.89	269.61	4,831.90	-1,091.90	-29.99	-4,448.35	4,448.45	0.00	0.00	0.00
9,270.00	90.88	269.61	4,830.51	-1,090.51	-30.59	-4,538.34	4,538.44	0.00	0.00	0.00
9,360.00	90.88	269.61	4,829.12	-1,089.12	-31.20	-4,628.32	4,628.43	0.00	0.00	0.00
9,450.00	90.88	269.61	4,827.73	-1,087.73	-31.81	-4,718.31	4,718.42	0.00	0.00	0.00
9,540.00	90.88	269.61	4,826.35	-1,086.35	-32.41	-4,808.30	4,808.41	0.00	0.00	0.00
TDB 9627'										
9,627.31	90.88	269.61	4,825.00	-1,085.00	-33.00	-4,895.60	4,895.71	0.00	0.00	0.00

Design Targets:									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
10H BHL - plan hits target center - Point	0.00	0.00	4,825.00	-33.00	-4,895.60	673,206.70	628,407.90	32° 51' 0.1119 N	103° 54' 54.7397 W
10H Mid Pt - plan hits target center - Point	0.00	0.00	4,860.00	-17.80	-2,638.78	673,221.89	630,664.72	32° 51' 0.1731 N	103° 54' 28.2840 W
10H Landing Pt - plan hits target center - Point	0.00	0.00	4,895.00	-2.60	-381.96	673,237.10	632,921.54	32° 51' 0.2328 N	103° 54' 1.8284 W

Planning Report

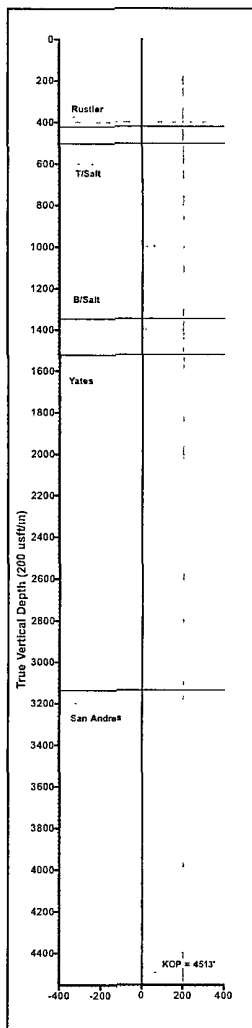
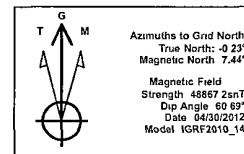
Database:	CCR DB v5000	Local Co-ordinate Reference:	Well Raven Federal # 10H
Company:	Apache Corporation	TVD Reference:	WELL @ 3740.00usft (Original Well Elev)
Project:	Eddy County, NM	MD Reference:	WELL @ 3740.00usft (Original Well Elev)
Site:	Raven Federal	North Reference:	Grid
Well:	Raven Federal # 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Raven Federal # 10H		
Design:	Plan 1-05-01-2012		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
421.00	421.00	Rustler		0.00		
502.00	502.00	T/Salt		0.00		
1,346.00	1,346.00	B/Salt		0.00		
1,522.00	1,522.00	Yates		0.00		
3,136.00	3,136.00	San Andres		0.00		
4,601.80	4,601.00	Glorieta		0.00		
4,667.15	4,663.00	Paddock		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,513.03	4,513.03	0.00	0.00	KOP = 4513'	
5,113.03	4,895.00	-2.60	-381.96	Landing Pt. = 5113'	
5,142.85	4,894.77	-2.80	-411.78	Hold 90.9° Inc = 5143'	
7,370.17	4,860.00	-17.80	-2,638.78	Mid Pt = 7370'	
9,627.31	4,825.00	-33.00	-4,895.60	TD = 9627'	



Apache Corporation
Project: Eddy County, NM
Site: Raven Federal
Well: Raven Federal #10H
Wellbore: Raven Federal #10H
Plan: Plan 1 05-01-2012

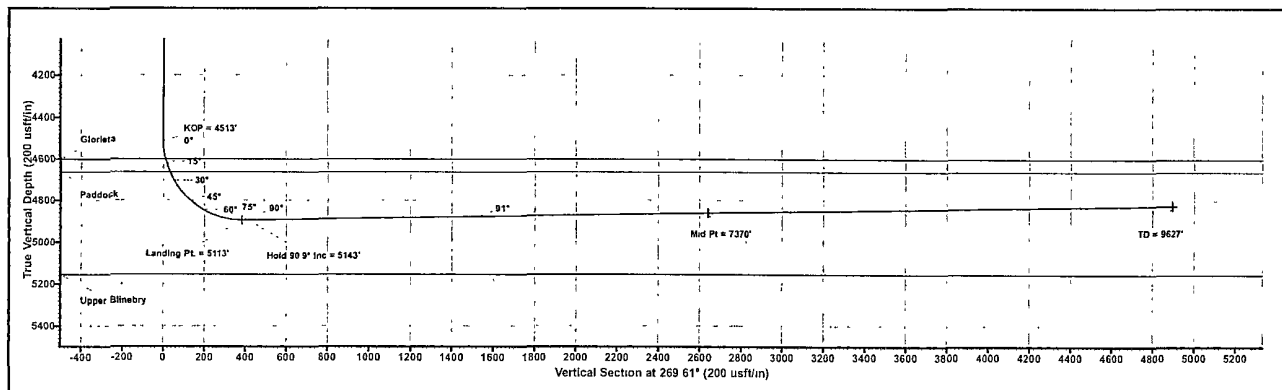
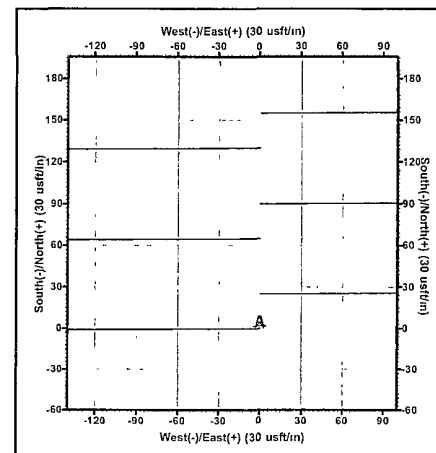
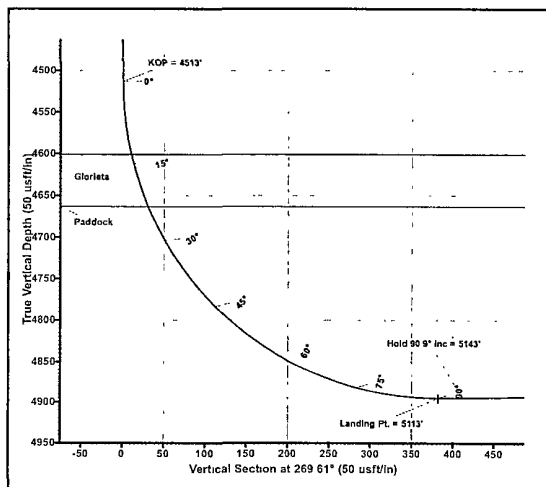
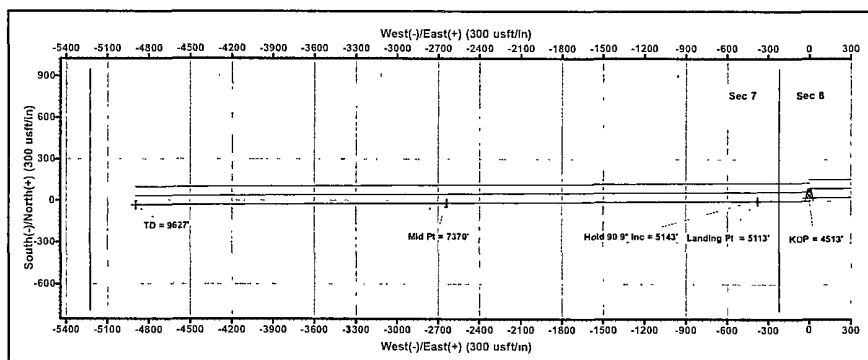


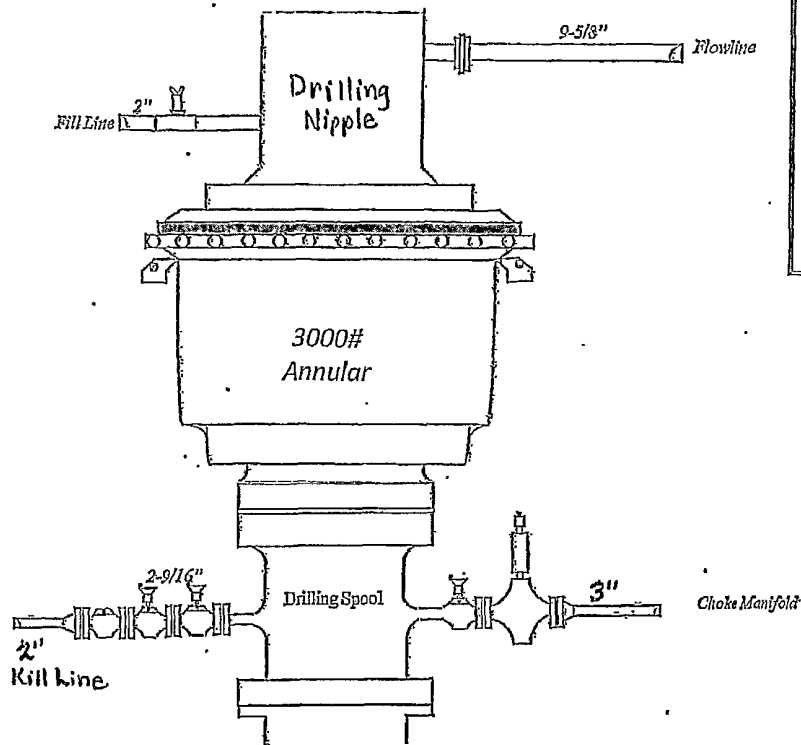
WELL DETAILS: Raven Federal # 10H				
Northings	Easting	Ground Level	Latitude	Longitude
673239.70	633303.50	3727.00	32° 51' 0.2430 N	103° 53' 57.3509 W

FORMATION TOP DETAILS		
TVDPath	MOPPath	Formation
421.00	421.00	Rustler
592.00	592.00	T/Salt
1346.00	1346.00	B/Salt
1522.00	1522.00	Yates
2136.00	2136.00	San Andres
4681.00	4681.00	Glorieta
4683.00	4683.00	Paddock

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4513.03	0.00	0.00	4513.03	0.00	0.00	0.00	0.00	0.00	
5113.03	90.00	269.61	4895.00	-2.60	-381.96	15.00	269.61	381.97	10H Landing Pt
5142.84	90.89	269.61	4894.77	-2.80	-411.78	3.00	0.26	411.79	
5370.17	90.89	269.61	4890.00	-17.80	-2638.78	0.00	0.00	3638.84	10H Mid Pt
6627.31	90.88	269.61	4825.00	-33.00	-4695.60	0.00	-180.00	4895.71	10H BHL

ANNOTATIONS		
TVD	MD	Annotation
4513.03	4513.03	KOP = 4513'
4895.00	5113.03	Landing Pt. = 5113'
4894.77	5142.84	Hold 90.9° Inc = 5143'
4890.00	7370.17	Mid Pt = 7370'
4825.00	6627.31	TD = 6627'

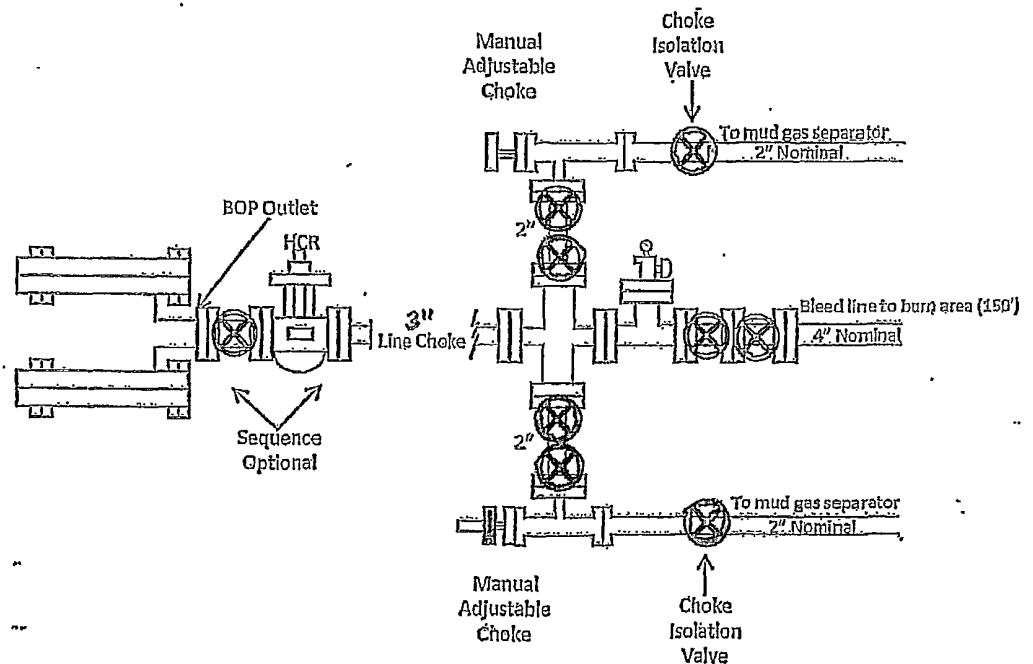


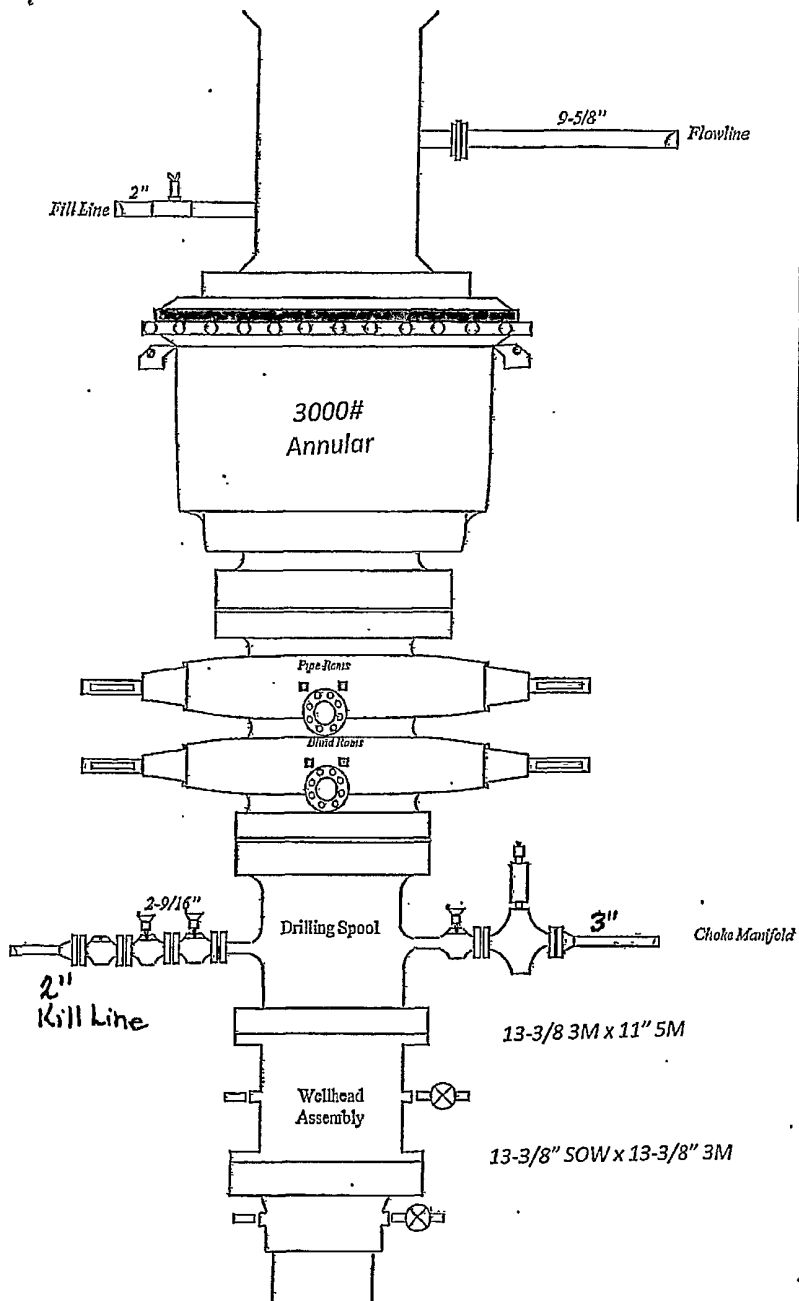


**13-5/8" 3M psi
BOPE & Choke Manifold**

Exhibit 3

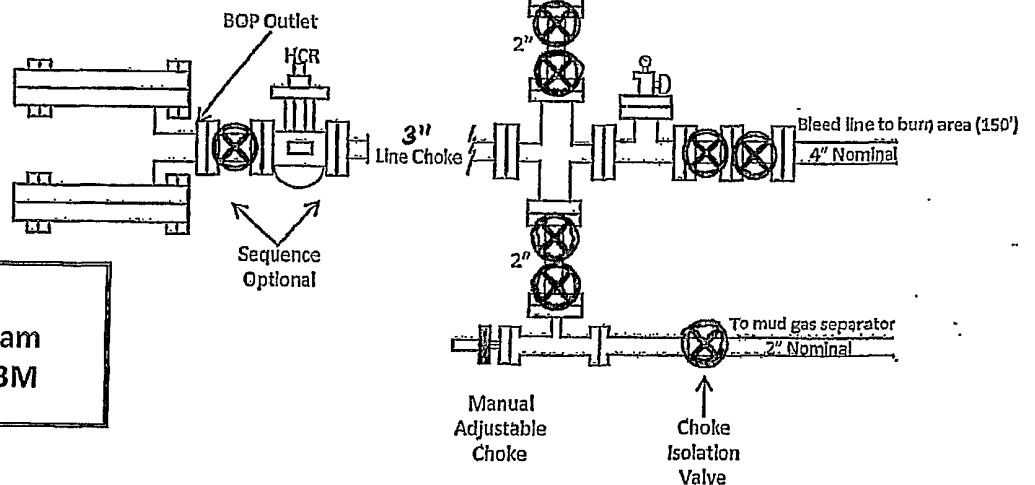
All valve & lines on choke manifold are 2" unless noted.
Exact manifold configuration may vary





**11' or 13-5/8" 5M psi
BOPE & Choke Manifold
EXHIBIT 3A**

All valve & lines on choke manifold are 2" unless noted. Exact manifold configuration may vary

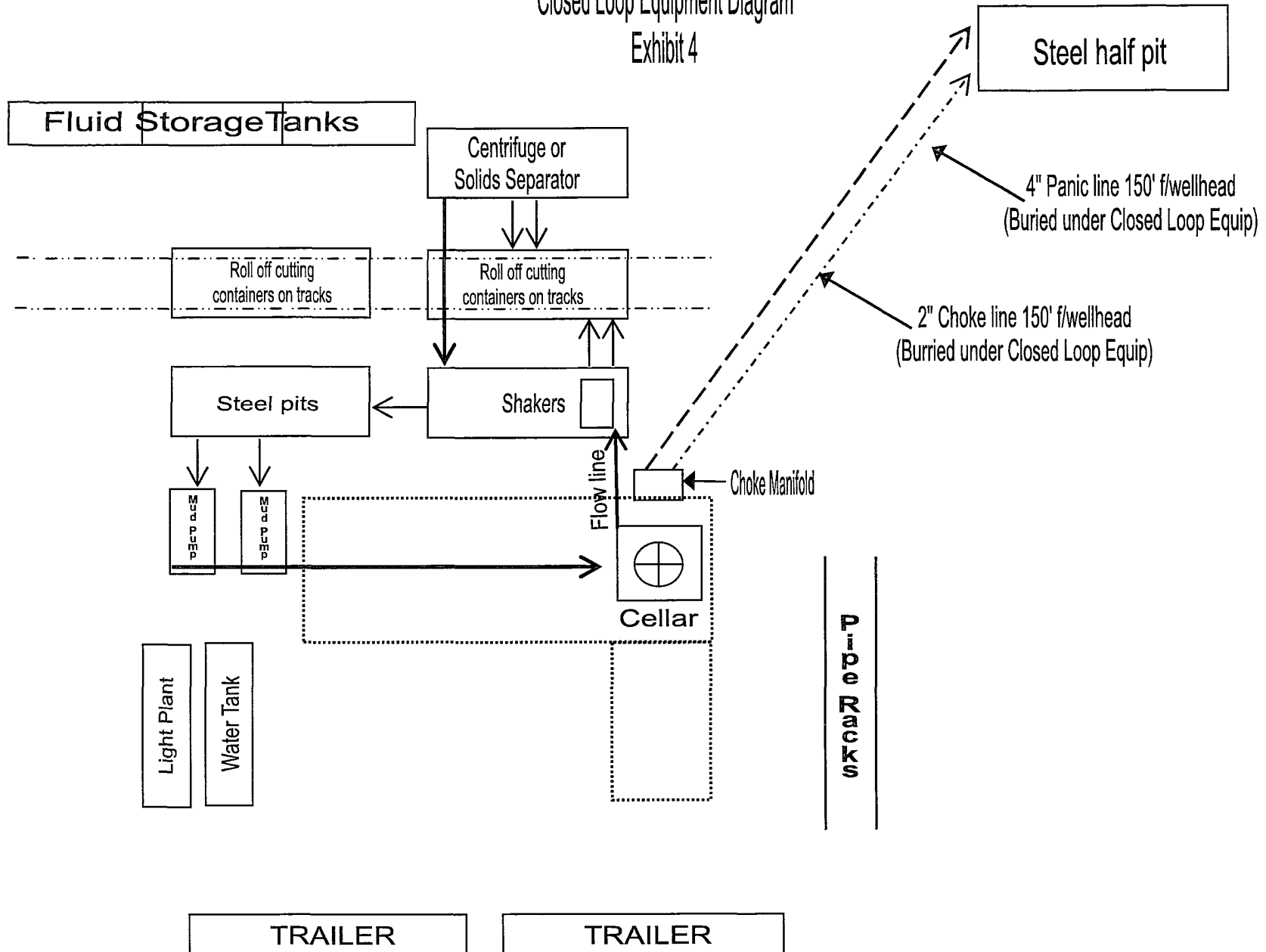


**Choke Manifold Diagram
5M Service tested to 3M**

Apache

Closed Loop Equipment Diagram

Exhibit 4





**DESIGN PLAN, OPERATING & MAINTENANCE PLAN, & CLOSURE PLAN
FOR OCD FOR C-144**

RAVEN FEDERAL #10H

DESIGN PLAN

Fluid & cuttings coming from drilling operations will pass over the Shale Shaker with the cuttings going to the Sundance Inc / CRI haul off bin and the cleaned fluid returning to the working steel pits.

Equipment includes:

- 2 – 500 bbl steel frac tanks (fresh water for drilling)
- 2 – 180 bbl steel working pits
- 3 – 75 bbl steel haul off bins
- 2 – Pumps (6-1/2" x 10" PZ 10 or equivalent)
- 1 – Shale shaker
- 1 – Mud cleaner – QMAX MudStripper

OPERATING AND MAINTENANCE PLAN

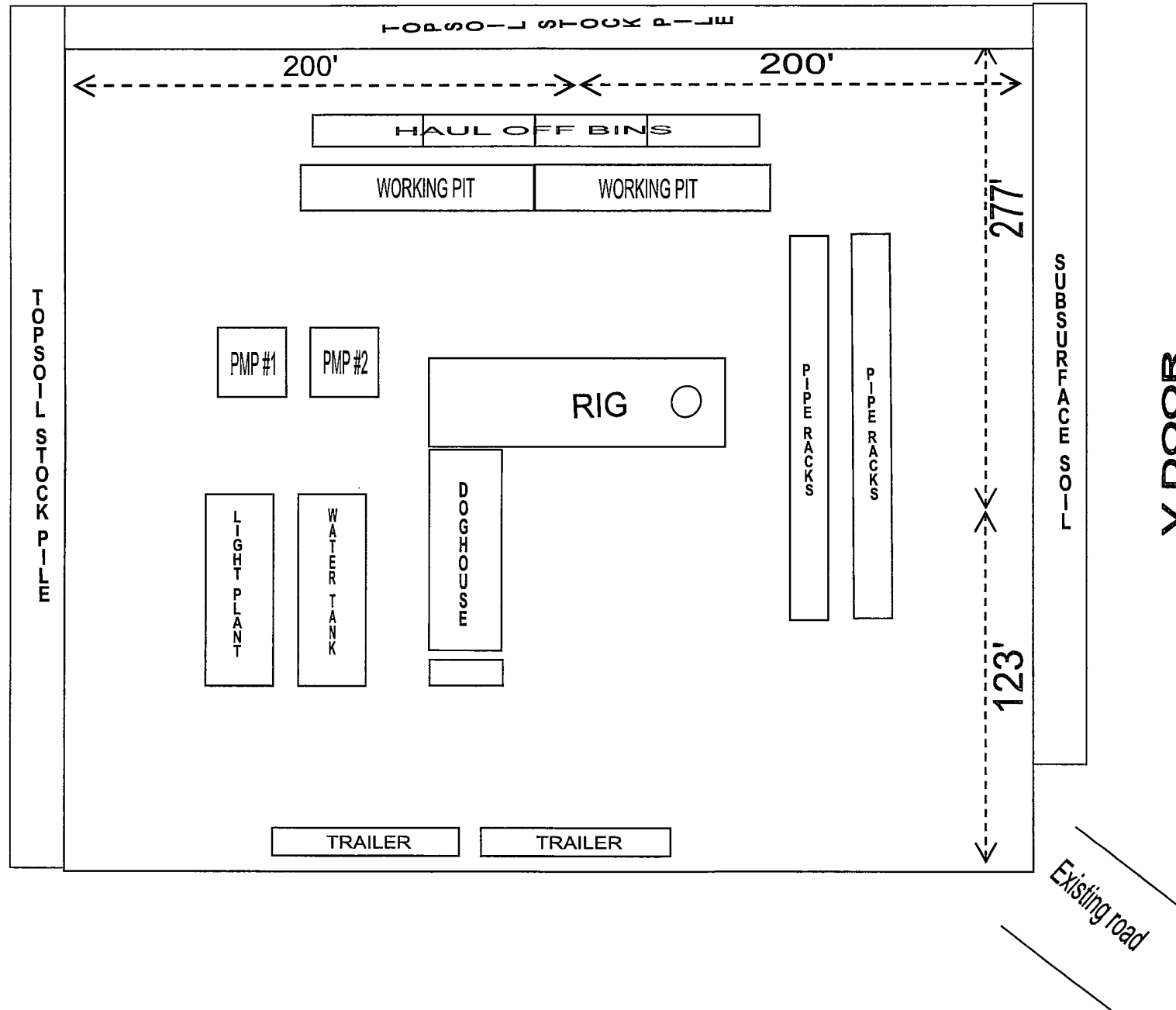
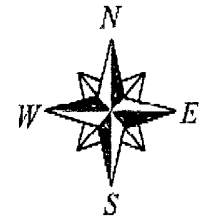
Inspection to occur every tour for proper operation of system and individual components. If any problems are found they will be repaired and/or corrected immediately.

CLOSURE PLAN

All haul bins containing cuttings will be removed from location and hauled to Sundance Incorporated (NM-01-0003) disposal site located 3 miles East of Eunice, NM on the Texas border / Controlled Recovery, Inc's (NM-01-0006) disposal site located near mile marker 66 on Highway 62/180.

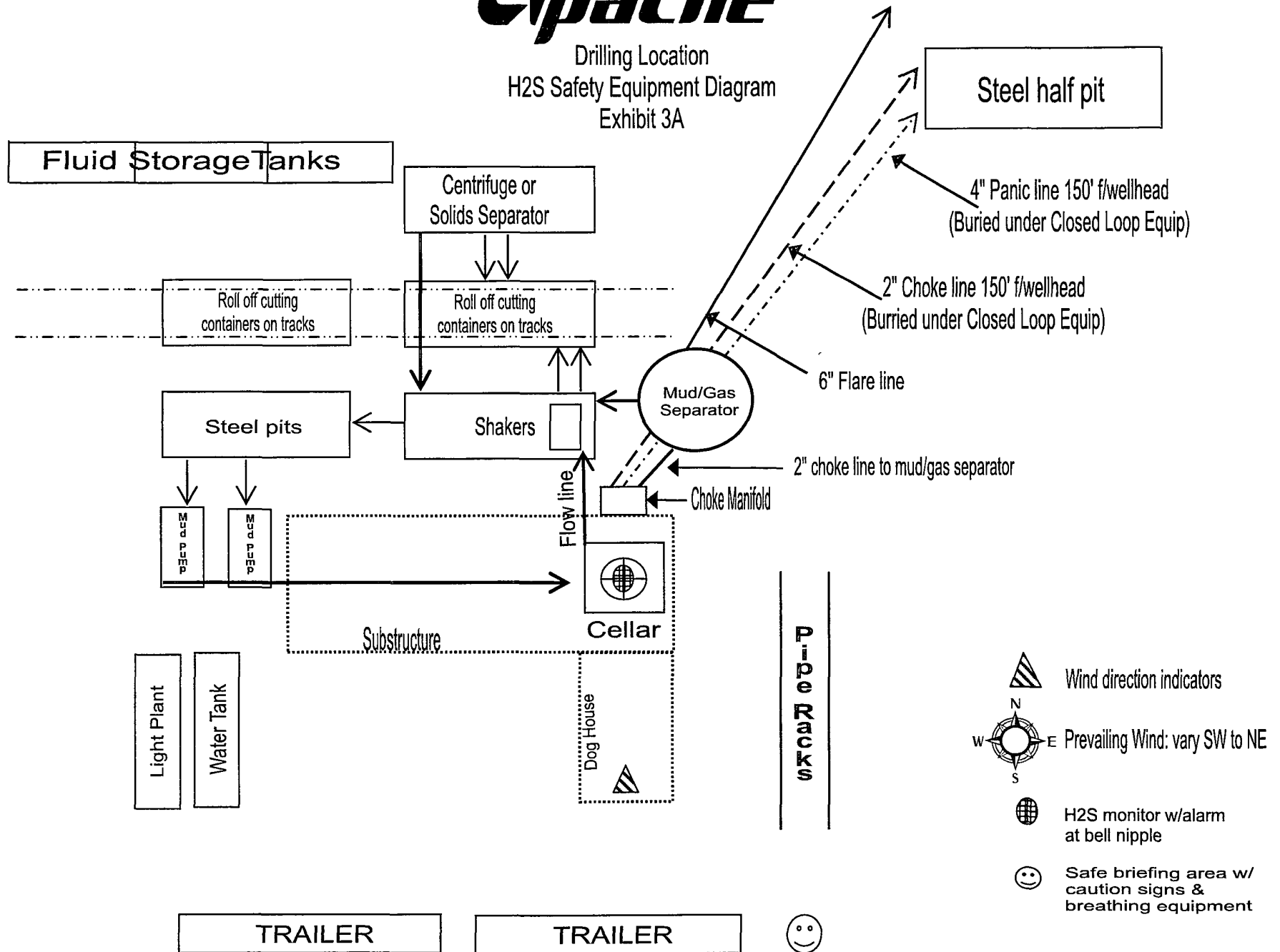
Sorina L. Flores
Supv. of Drilling Services

RIG ORIENTATION & LAYOUT
RAVEN FEDERAL #10H
EXHIBIT 5 (Revised)



Apache

Drilling Location
H2S Safety Equipment Diagram
Exhibit 3A



HYDROGEN SULFIDE (H₂S) DRILLING OPERATIONS PLAN

Hydrogen Sulfide Training:

All regularly assigned personnel, contracted or employed by Apache Corporation will receive training from qualified instructor(s) in the following areas prior to commencing drilling possible hydrogen sulfide bearing formations in this well:

- The hazards and characteristics of hydrogen sulfide (H₂S)
- The proper use and maintenance of personal protective equipment and life support systems.
- The proper use of H₂S detectors, alarms, warning systems, briefing area, evacuation procedures & prevailing winds.
- The proper techniques for first aid and rescue procedures.

Supervisory personnel will be trained in the following areas:

- The effects of H₂S on metal components. If high tensile tubulars are to be utilized, personnel will be trained in their special maintenance requirements.
- Corrective action & shut-in procedures when drilling or reworking a well & blowout prevention / well control procedures.
- The contents and requirements of the H₂S Drilling Operations Plan

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500') and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received proper training.

H₂S SAFETY EQUIPMENT AND SYSTEMS:

Well Control Equipment that will be available & installed if H₂S is encountered:

- Flare Line with electronic igniter or continuous pilot.
- Choke manifold with a minimum of one remote choke.
- Blind rams & pipe rams to accommodate all pipe sizes with properly sized closing unit.
- Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head & flare gun with flares

Protective Equipment for Essential Personnel:

- Mark II Survive-air 30 minute units located in dog house & at briefing areas, as indicated on wellsite diagram.

H₂S Detection and Monitoring Equipment:

- Two portable H₂S monitors positioned on location for best coverage & response. These units have warning lights & audible sirens when H₂S levels of 20 ppm are reached.
- One portable H₂S monitor positioned near flare line.

H₂S Visual Warning Systems:

- Wind direction indicators are shown on wellsite diagram.
- Caution / Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

Mud Program:

- The Mud Program has been designed to minimize the volume of H₂S circulated to the surface. Proper mud weights, safe drilling practices & the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.
- A mud-gas separator and H₂S gas buster will be utilized as needed.

Metallurgy:

- All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold & lines, & valves will be suitable for H₂S service.
- All elastomers used for packing & seals shall be H₂S trim.

Communication:

- Cellular telephone and 2-way radio communications in company vehicles, rig floor and mud logging trailer.

HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

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 operators 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 this 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

Apache Corporation personnel must liaison 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. Apache's response must be in coordination with the State of New Mexico's "*Hazardous Materials Emergency Response Plan*" (HMER).

WELL CONTROL EMERGENCY RESPONSE PLAN

I. GENERAL PHILOSOPHY

Our objective is to ensure that during an emergency, a predetermined procedure is followed so that prompt decisions can be made based on accurate information.

The best way to handle an emergency is with an experienced organization set up for the sole purpose of solving the problem. The *Well Control Emergency Response Team* was organized to handle dangerous & expensive well control problems. The *Team* is structured such that each individual can contribute the most from his area of expertise. Key decision-makers are determined prior to an emergency to avoid confusion about who is in charge.

If the well is flowing uncontrolled at the surface or subsurface, *The Emergency Response Team* will be mobilized. The *Team* is customized for the people currently on the Apache staff. Staff changes may require a change in the plan.

II. EMERGENCY PROCEDURE ON DRILLING OR COMPLETION OPERATIONS

- A. In the event of an emergency the *Drilling Foreman* or *Tool-Pusher* will immediately contact only one of the following starting with the first name listed:

Name	Office	Mobile	Home
Danny Laman – Drlg Superintendent	432-818-1022	432-634-0288	432-520-3528
Terry West – Drilling Engineer	432-818-1114	432-664-7254	
Bobby Smith – Drilling Manager	432-818-1020	432-556-7701	
Jeff Burt – EH&S Coordinator		432-631-9081	

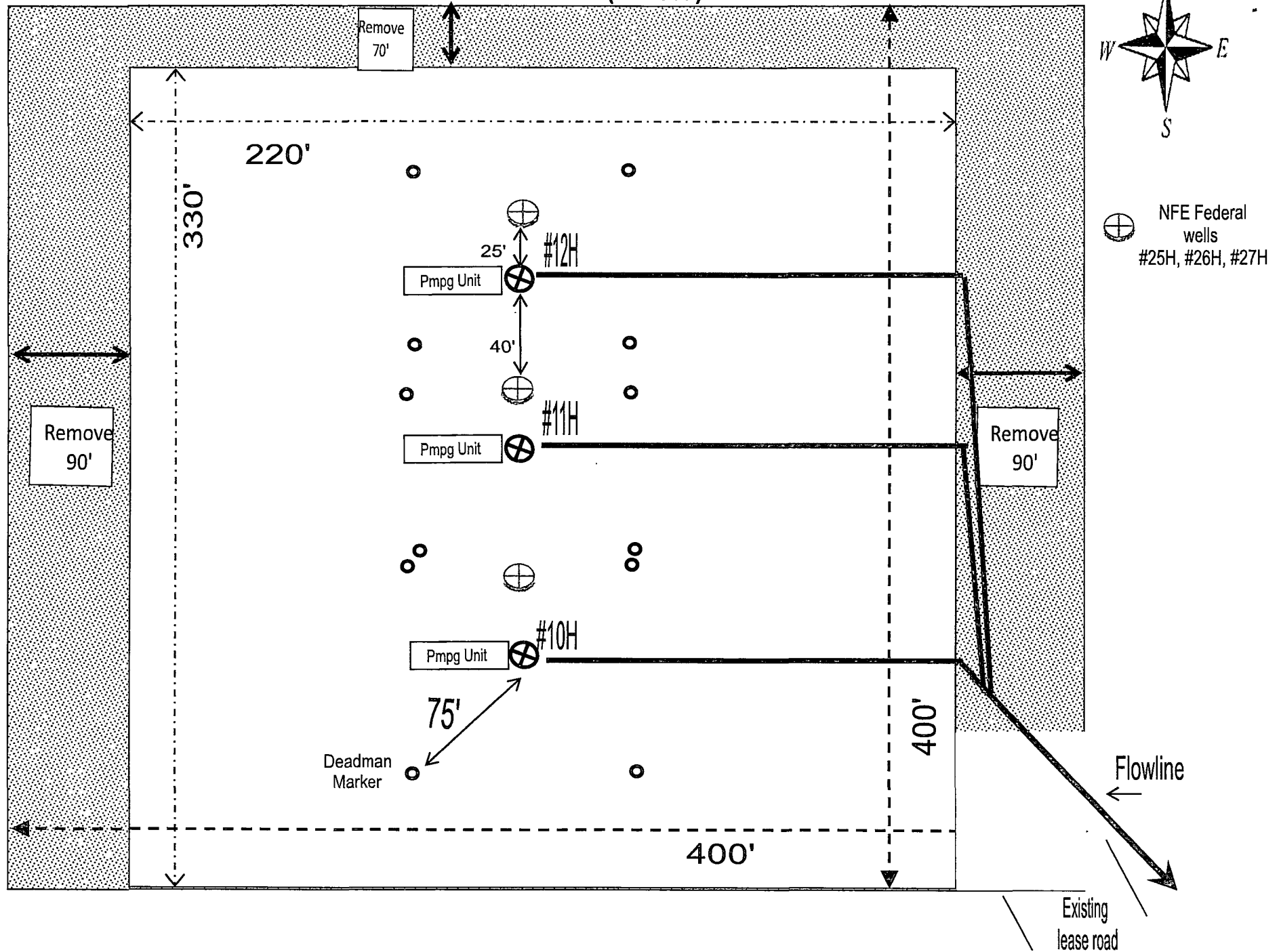
***This one phone call will free the Drilling Foreman to devote his full time to securing the safety of personnel & equipment. This call will initiate the process to mobilize the Well Control Emergency Response Team. Apache maintains an Emergency Telephone Conference Room in the Houston office. This room is available for us by the Permian Region. The room has 50 separate telephone lines.*

- B. The Apache employee contacted by the Drilling Foreman will begin contacting the rest of the *Team*. If **Danny Laman** is out of contact, **Bob Lange** will be notified.
- C. If a member of the *Emergency Response Team* is away from the job, he must be available for call back. Telephone numbers should be left with secretaries or a key decision-maker.
- D. Apache's reporting procedure for spills or releases of oil or hazardous materials will be implemented when spills or releases have occurred or are probable.

EMERGENCY RESPONSE NUMBERS:

SHERIFF DEPARTMENT	
Eddy County	575-887-7551
Lea County	575-396-3611
FIRE DEPARTMENT	
	911
Artesia	575-746-5050
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS	
	911
Artesia Medical Emergency	575-746-5050
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS	
Bureau of Land Management	575-393-3612
New Mexico Oil Conservation Division	575-393-6161

INTERIM RECLAMATION LAYOUT
RAVEN FEDERAL #10H #11H #12H
EXHIBIT #6 (Revised)



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Apache Corporation
LEASE NO.:	LC-029435A
WELL NAME & NO.:	Raven Federal #10H
SURFACE HOLE FOOTAGE:	2218' FNL & 220' FWL
BOTTOM HOLE FOOTAGE:	2218' FNL & 330' FWL Sec. 7
LOCATION:	Section 8, T. 17 S., R. 31 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**
 - Well Pad Construction and Soil Stockpile
 - Interim Reclamation Requirement
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Communitization Agreement
- ☒ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
 - H₂S Requirements-Onshore Order #6
 - Logging Requirements
 - Waste Material and Fluids
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
- ☐ **Interim Reclamation**
- ☒ **Final Abandonment & Reclamation**