

NM OIL CONSERVATION
ARTESIA DISTRICT

546

Form 3160-3
(March 2012)

JUN 02 2014

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMLC-029395B

TOS
6-2-2014

6. If Indian, Allottee 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.
LEE FEDERAL #80 <308720>

2. Name of Operator APACHE CORPORATION

<873>

9. API Well No.
30-015-

42402

3a. Address 303 VETERANS AIRPARK LN #1000
MIDLAND, TX 79705

3b. Phone No. (include area code)
432-818-1167

10. Field and Pool, or Exploratory
CEDAR LAKE;GLORIETA-YESO <96831>

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 1550' FSL & 1080' FWL
At proposed prod. zone SAME

11. Sec., T. R. M. or Blk. and Survey or Area
UL: L SEC: 20 T17S R31E

14. Distance in miles and direction from nearest town or post office*
4.8 MILES EAST OF LOCO HILLS, NM

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1080'

16. No. of acres in lease
1786.15 ACRES

17. Spacing Unit dedicated to this well
40 ACRES

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ~ 100'

19. Proposed Depth
6500'

20. BLM/BIA Bond No. on file
BLM-CO-1463 NATIONWIDE/NMB000736

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
GL: 3636'

22. Approximate date work will start*
AS SOON AS APPROVED

23. Estimated duration
~ 10 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 *Sorina L Flores*

Name (Printed/Typed)
SORINA L. FLORES

Date
2/12/14

Title
SUPV OF DRILLING SERVICES

Approved by (Signature)
Steve Caffey
FIELD MANAGER

Name (Printed/Typed)
Office
CARLSBAD FIELD OFFICE

Date
MAY 27 2014

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

NM OIL CONSERVATION
ARTESIA DISTRICT

*(Instructions on page 2)

Roswell Controlled Water Basin

JUN 02 2014

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED

Approval Subject to General Requirements
& Special Stipulations Attached

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 30-015-42402	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 308720	Property Name LEE FEDERAL	Well Number 80
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3636'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	17-S	31-E		1550	SOUTH	1080	WEST	EDDY

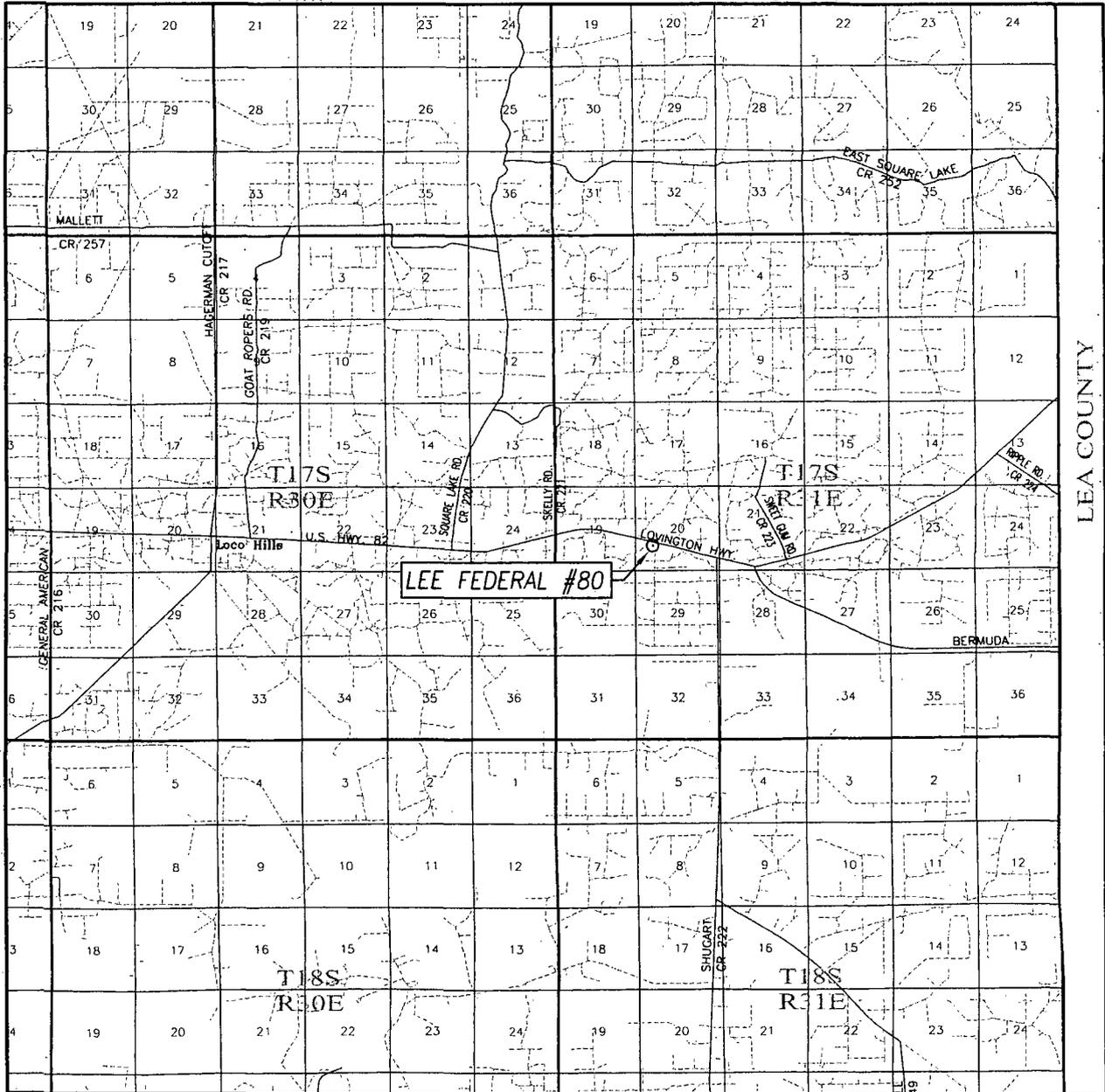
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

<p>GEODETTIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=661172.1 N X=634232.3 E</p> <p>LAT.=32.816887° N LONG.=103.896402° W</p> <p>LAT.=32° 49' 01" N LONG.=103° 53' 47" W</p> <p>1080'</p> <p>S.L. SEE DETAIL</p> <p>1550'</p> <p>DETAIL</p> <p>3631.2' 3646.0'</p> <p>600'</p> <p>3630.0' 3647.4'</p>	<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><i>Sorina L Flores</i> 2/15/14 Signature Date</p> <p>Sorina L Flores Printed Name</p> <p>sorina.flores@apachecorp.com E-mail Address</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 25, 2013</p>
	<p>Date of Survey</p> <p>Signature & Seal of Professional Surveyor:</p> <p>3/14</p>
	<p>Certificate Number: Gary G. Eidson 12641 Ronald J. Eidson 3239</p> <p>DSR REL. WORKING INTEREST JWSC W.O.: 14.13.0118</p>

VICINITY MAP



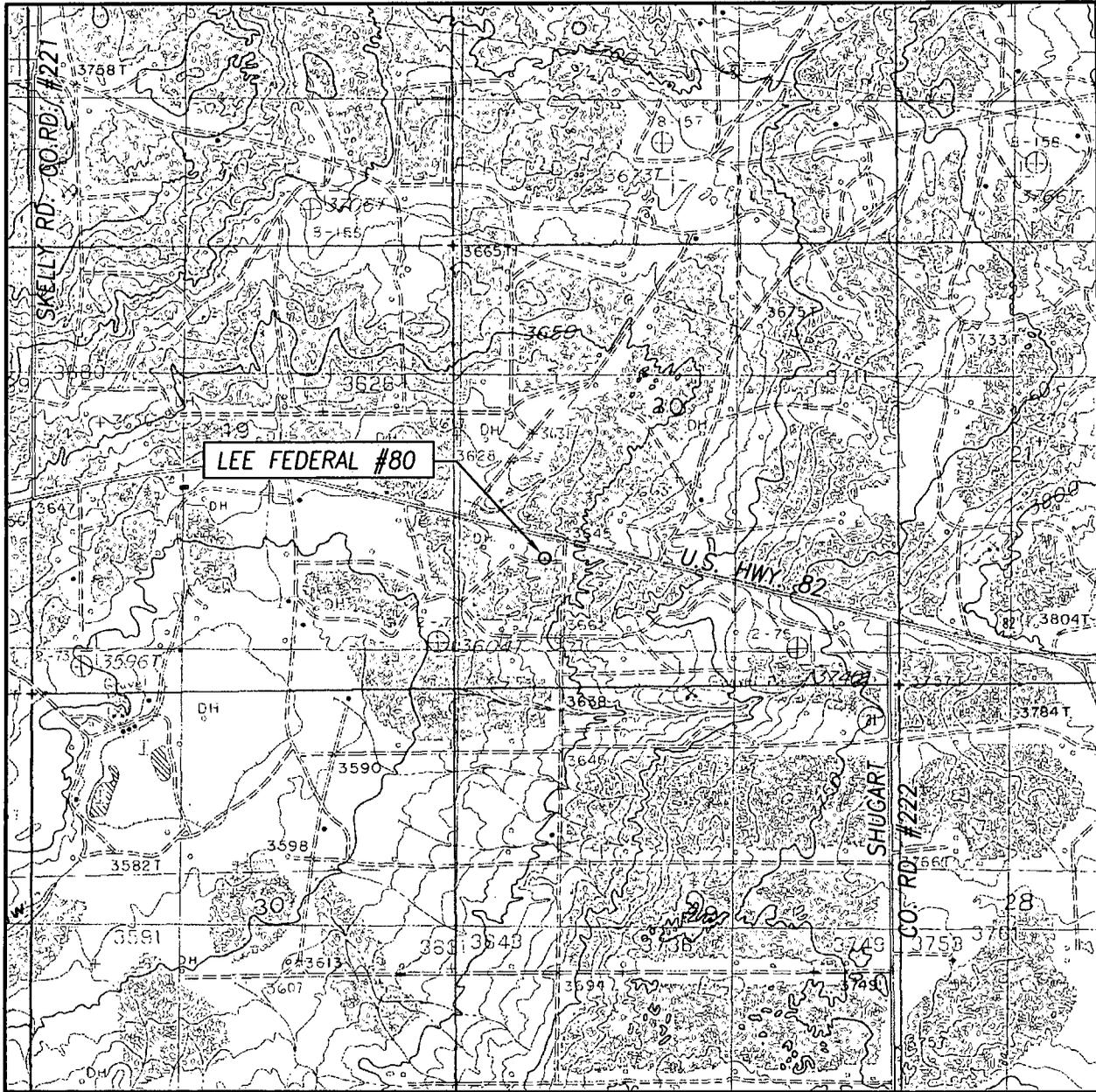
SCALE: 1" = 2 MILES

SEC. 20 TWP. 17-S RGE. 31-E
 SURVEY _____ N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 1550' FSL & 1080' FWL
 ELEVATION 3636'
 OPERATOR APACHE CORPORATION
 LEASE LEE FEDERAL



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LOCO HILLS, N.M. - 10'

SEC. 20 TWP. 17-S RGE. 31-E

SURVEY _____ N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1550' FSL & 1080' FWL

ELEVATION 3636'

OPERATOR APACHE CORPORATION

LEASE LEE FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
LOCO HILLS, N.M.



PROVIDING SURVEYING SERVICES
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HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz

APACHE CORPORATION

Lee Federal #80 (1 MI RADIUS)

1550' FSL & 1080' FWL

SEC: 20 T17S R31E

POSTED WELL DATA

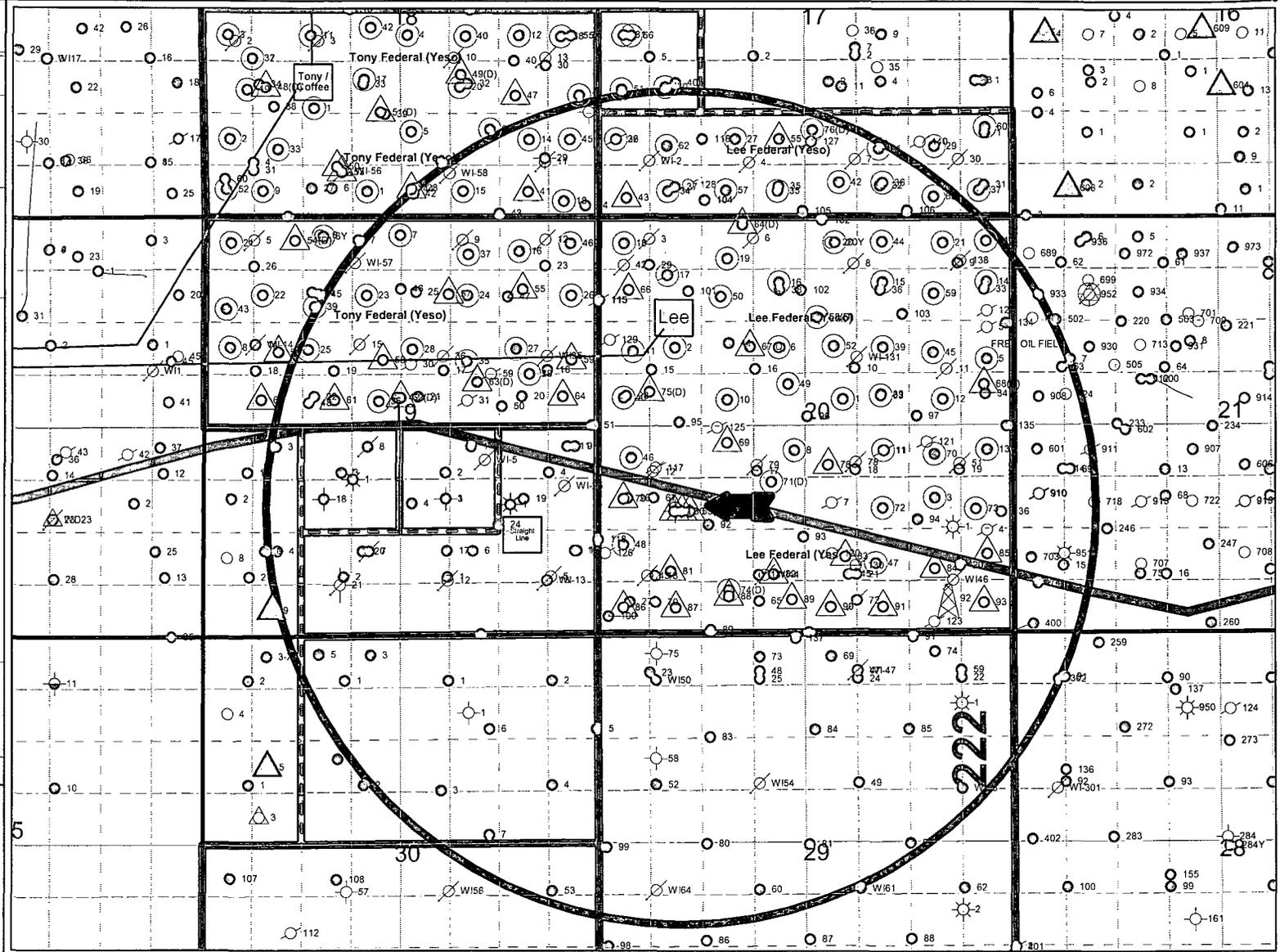
○ Well Number

- WELL SYMBOLS**
- Abandoned Well
 - ⊗ Well Derrick
 - Dry Hole, With Show of Oil
 - Dry Hole
 - △ Disposal
 - ☀ Gas Well
 - ⊗ Injection Well
 - ⊗ Plugged Injection
 - ⊗ Active Injection
 - Location
 - △ Proposed Drilling Location
 - Oil Well
 - ⊗ Plugged and Abandoned
 - ⊗ Active Producer
 - ⊗ Service Well
 - △ PERMIT



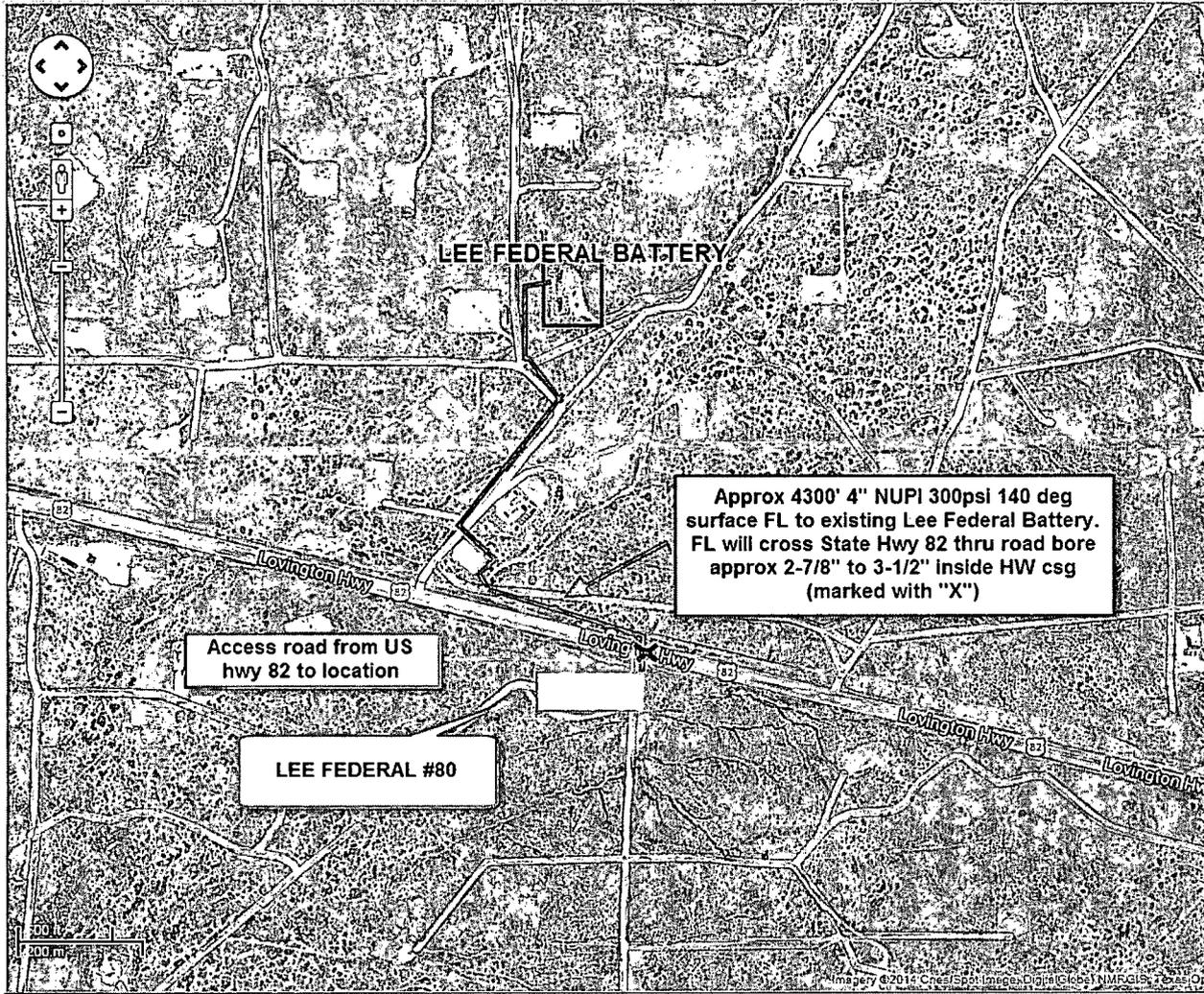
February 5, 2014

Exhibit #2



LEE FEDERAL #80

EXHIBIT 1



Approx 4300' of 4" NUPI rated 300psi up to 140 deg surface FL to the existing Lee Federal Battery following existing lease road (FL pipe rated @ 300psi, WP ~ 80psi, kill switches & chokes will be installed to prevent exceeding 125psi for above ground pipe lines)

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

APACHE CORPORATION (OGRID: 873) LEE FEDERAL #80

Lease #: NMLC-029395B Projected TD: 6500' GL: 3636'
1550' FSL & 1080' FWL UL: L Sec: 20 T17S R31E EDDY COUNTY, NM

1. **GEOLOGIC NAME OF SURFACE FORMATION:** Quaternary Aeolian Deposits
2. **ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:**

Quaternary Aeolian	Surface	Queen	2348' (Oil)
Rustler	271'	Grayburg	2709' (Oil)
Top of Salt	551'	San Andres	3108' (Oil)
Base of Salt/Tansill	1311'	Glorieta	4614'
Yates	1416'	Yeso	4677' (Oil)
Seven Rivers	1725' (Oil)	TD	6500'

Depth to Ground Water: 91'

All fresh water & prospectively valuable minerals, as described by BLM, encountered during drilling, will be recorded by depth and adequately protected. All oil & gas shows within zones of correlative rights will be tested to determine commercial potential. The surface fresh water sands will be protected by setting 13-3/8" csg @ 300' & circ cmt back to surface. All intervals will be isolated by setting 5-1/2" csg to TD & circ cmt above the base of 8-5/8" csg.

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

HOLE SIZE	DEPTH	OD CSG	WEIGHT	COLLAR	GRADE	COLLAPSE	BURST	TENSION
17-1/2"	0' – 300'	13-3/8"	48#	STC	H-40	1.125	1.0	1.8
11"	0'-3500'	8-5/8"	32#	STC	J-55	1.125	1.0	1.8
7-7/8"	0'-6500'	5-1/2"	17#	LTC	J-55	1.125	1.0	1.8

4. **CEMENT PROGRAM:**

- A. **13-3/8" Surface (100% excess / cmt to surface):**

Lead: 370 sx Class C w/ 1% CaCl2 (14.8 wt, 1.34 yld, 6.34 gal/sk)

Comp Strengths: 12 hr – 813 psi 24 hr – 1205 psi

* If lost circ is encountered in the 17-1/2" hole, 100 sx Cl C Thixotropic cmt (14.4 wt, 1.55 yld, 6.65 gal/sk) may be pumped ahead of the cmt slurry listed in the above cmt program

- B. **8-5/8" Intermediate (100% excess / cmt to surface):**

Lead: 790 sx (35:65) Poz C w/ 6% Bentonite + 5% Salt (12.4 wt, 2.1 yld, 11.64gal/sk)

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

Tail: 220 sx Class C (14.8 wt, 1.34 yld, 6.31 gal/sk)

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

- C. **5-1/2" Production (30% excess / TOC ~ 500' from surface):**

Lead: 390 sx (35:65) Poz C w/ 6% Bentonite + 5% Salt (12.4 wt, 2.1 yld, 11.64 gal/sk)

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

Tail: 540 sx (50:50) Poz C w/ 2% Bentonite + 5% Salt (14.2 wt, 1.28 yld, 5.61 gal/sk)

Compressive Strengths: 12 hr – 1379 psi 24 psi – 2332 psi

** 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, TOC shall be determined by a method approved by BLM, operator will propose a remediation method & request BLM approval.

*** Known water flow in the area. If water flow is encountered, Apache may 2-stage Intermediate csg. A DVT may be used in the 8-5/8" Intermediate csg. An ECP may be placed below DVT. Csg slips may be set before cmtg. TD of the 11" hole at +/- 3500'. Assuming DVT set at +/-

1800', the following cmt will be used: **Cmt 1st Stage** w/ +/- 680 sx Cl C (14.8#, 1.33 yld, 6.31 gal/sk) 100% excess cmt **Cmt 2nd Stage** w/ +/- 790 sx Cl C (14.8#, 1.33 yld, 6.31 gal/sk) 100% excess cmt If DVT is set at a different depth, cmt volumes will be adjusted accordingly.

5. PROPOSED CONTROL EQUIPMENT

"EXHIBIT 3" shows a 13-5/8" 3M psi WP BOP consisting of an annular bag type preventer. The BOP will be nipped up on the 13-3/8" surface csg head & tested to 2000psi using test plug. After intermediate csg is set & cemented a 13-5/8" or 11" 3M BOP consisting of an annular bag type preventer, middle pipe rams, and bottom blind rams (see "EXHIBIT 3A") will be installed & 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 2860 psi. All BOPs & associated equipment will be tested as per BLM *Drilling Operations Order #2*. The BOPs will be operated and checked each 24 hr period & the blind rams will be operated & checked when the drill pipe is out of the hole. Function tests will be documented on the daily driller's log. "EXHIBITS 3 & 3A" also show 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 well control problems.

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

INTERVAL	MW (ppg)	VISC (sec/qt)	FLUID LOSS (cc)	MUD TYPE
0' -300'	8.3 - 8.8	28 - 36	NC	Fresh Water
300' to 3500'	9.8 - 10.0	28 - 29	NC	Brine
3500' - 6500'	9.0 - 10.0	28 - 29	NC	Cut Brine

**** Visual mud monitoring equipment shall be in place to detect volume changes. A mud test shall be performed every 24 hrs after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH. The necessary mud products for weight addition & fluid loss control will be on location at all times. In order to run open hole logs & casing, the above mud properties may be altered to meet these needs.**

7. AUXILIARY WELL CONTROL EQUIPMENT / MONITORING EQUIPMENT:

- 13-5/8" x 3000 psi annular bag type preventer (3M BOP/BOPE to be used as 2M system)
- 13-5/8" or 11" x 3000 psi double BOP (blind & pipe rams) and annular (3M BOP/BOPE to be used as 2M system)
- 4-1/2" x 3000 psi Kelly valve
- 13-5/8" or 11" 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:

- A. OH logs: Dual Laterolog, MSFL, CNL, Litho-Density, Gamma Ray, Caliper & Sonic from TD back to 8-5/8" csg shoe.
- B. Run CNL, Gamma Ray from 8-5/8" csg shoe back to surface.
- C. No cores or DSTs are planned at this time.
- D. 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.

9. POTENTIAL HAZARDS:

See COA

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*. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 2860 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 after BLM approval and as soon as rig will be available. Move in operations and drilling is expected to take approx 10 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 tested & potentialized as an oil well.

APACHE BOP AND CHOKE MANIFOLD SCHEMATIC

LEE FEDERAL #80

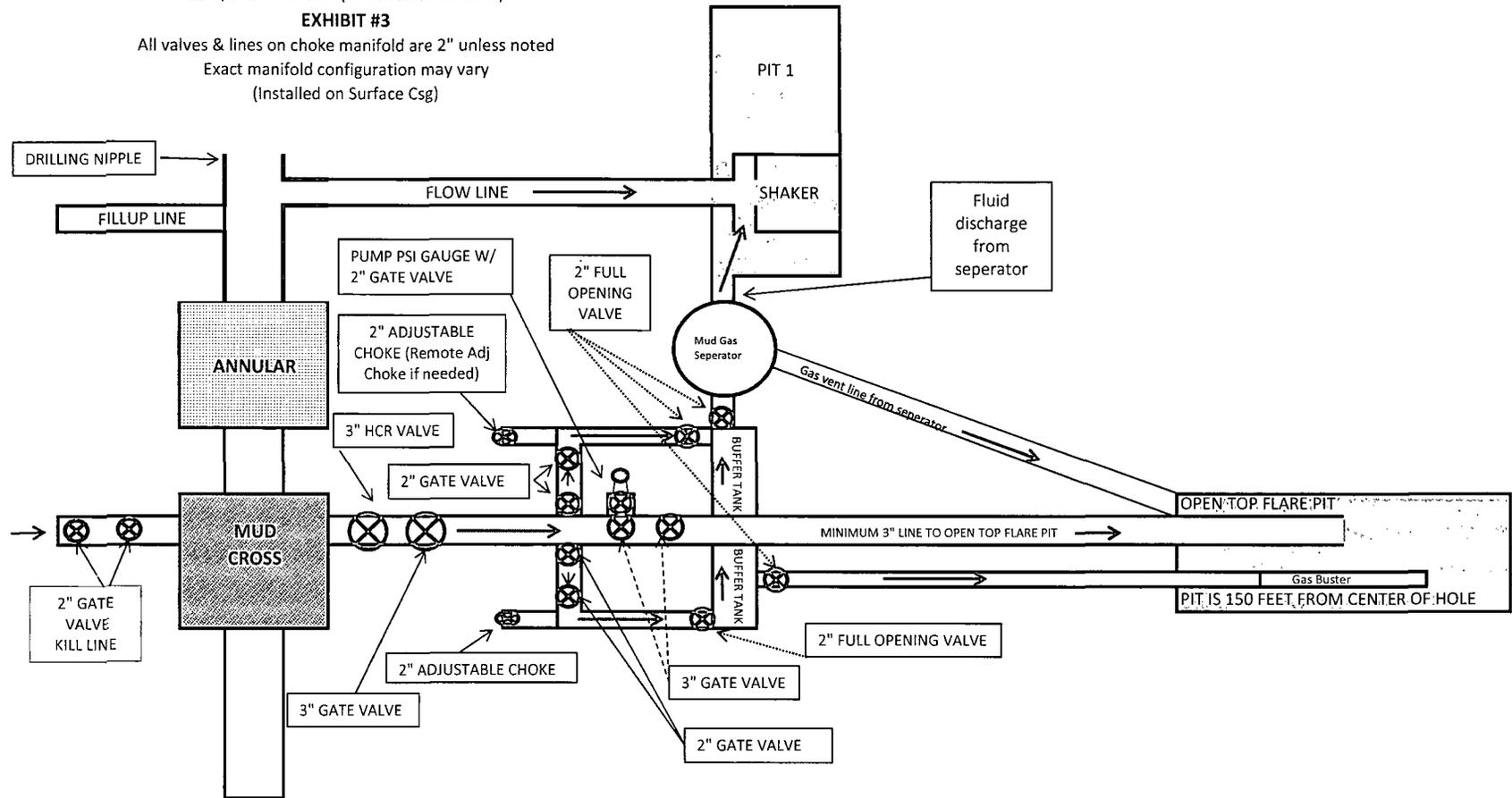
13-5/8" 3M PSI BOP (to be tested as a 2M)

EXHIBIT #3

All valves & lines on choke manifold are 2" unless noted

Exact manifold configuration may vary

(Installed on Surface Csg)



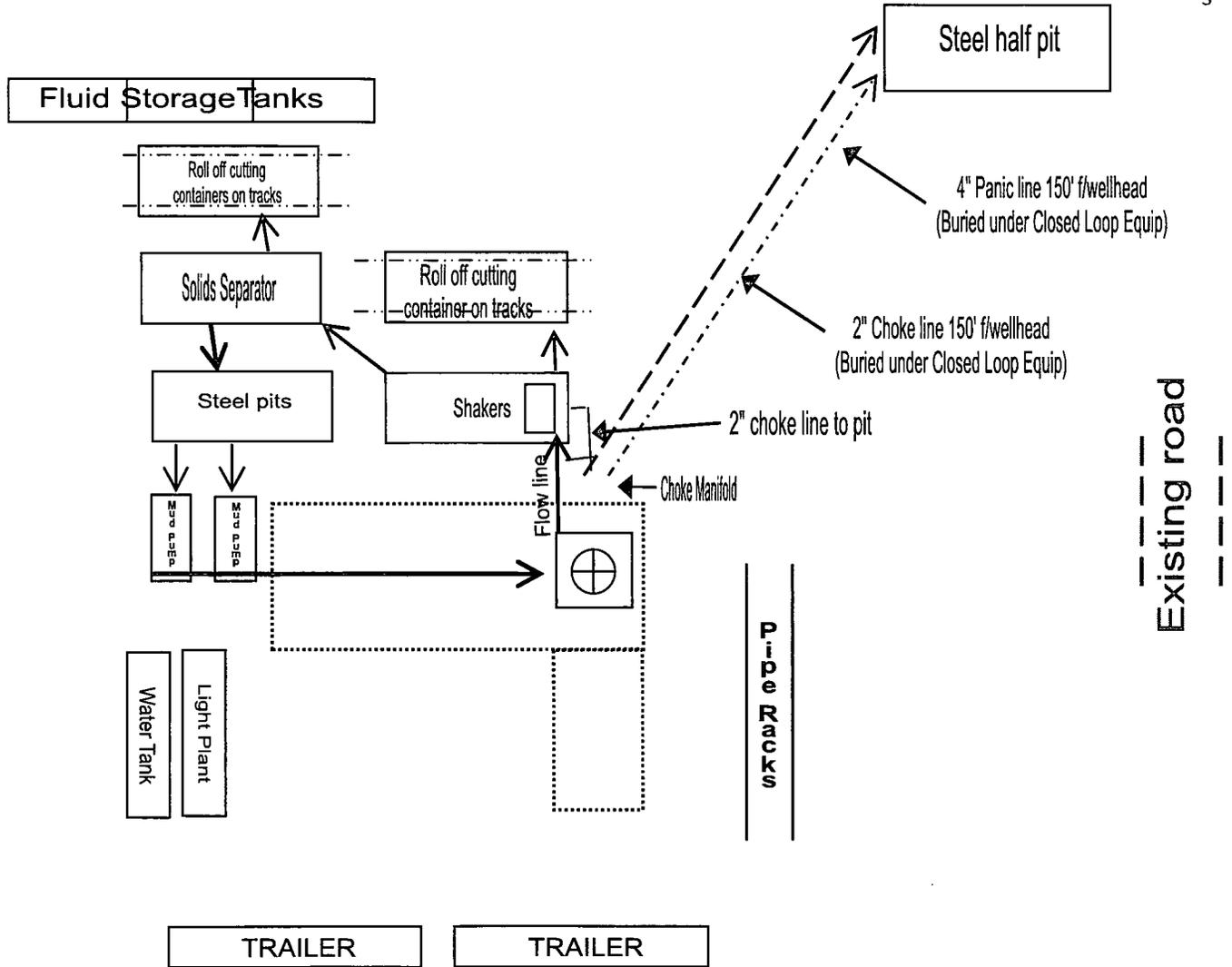
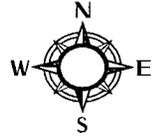
*** If H2S is encountered in quantities greater than 100ppm, Apache will shut in well & install a remote operated choke ***

Apache

Closed Loop Equipment Diagram

Exhibit 4

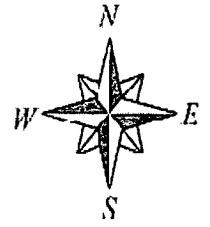
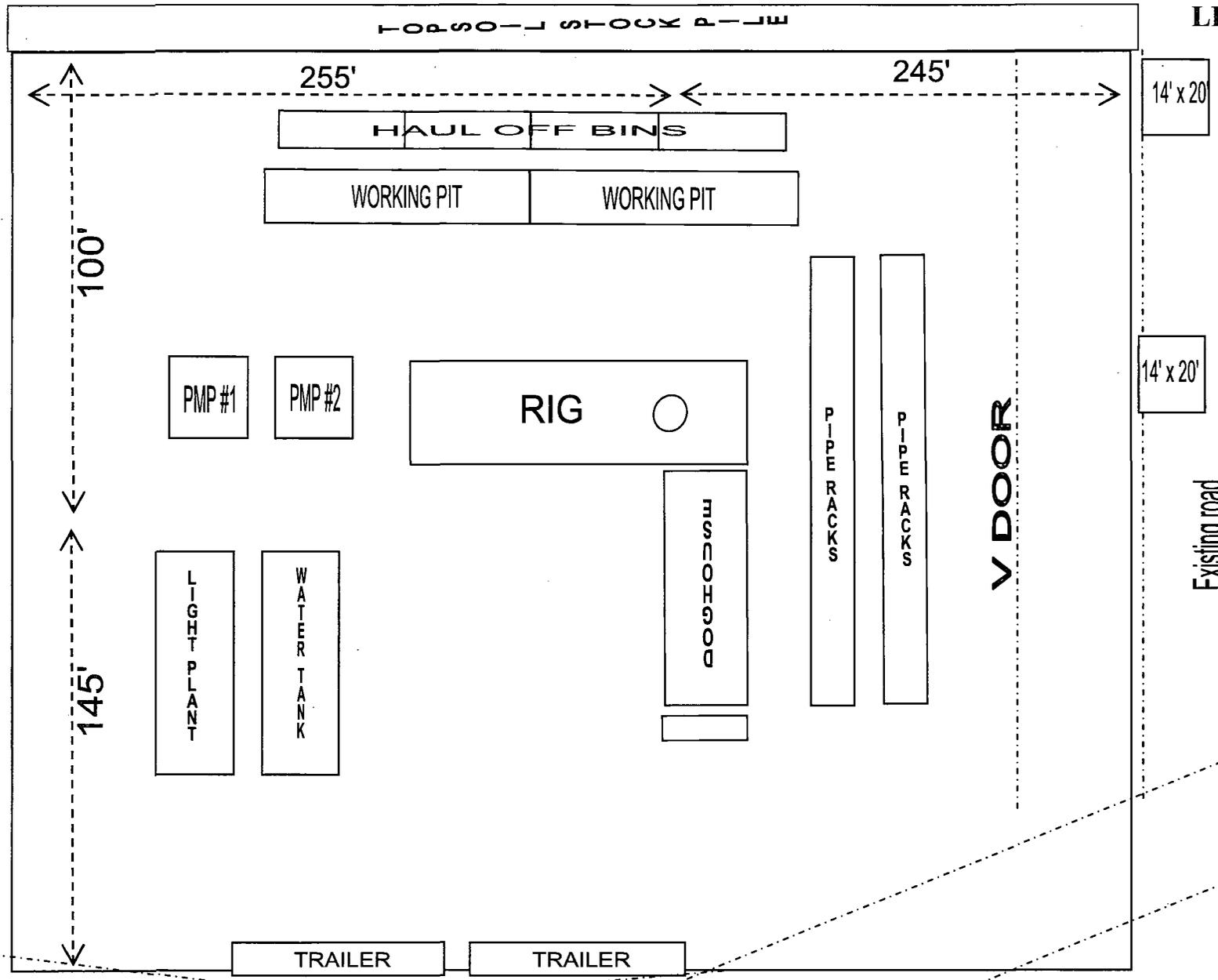
Lee Federal #80



Existing road

Existing road

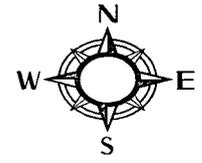
RIG ORIENTATION & LAYOUT
LEE FEDERAL #80
EXHIBIT 5



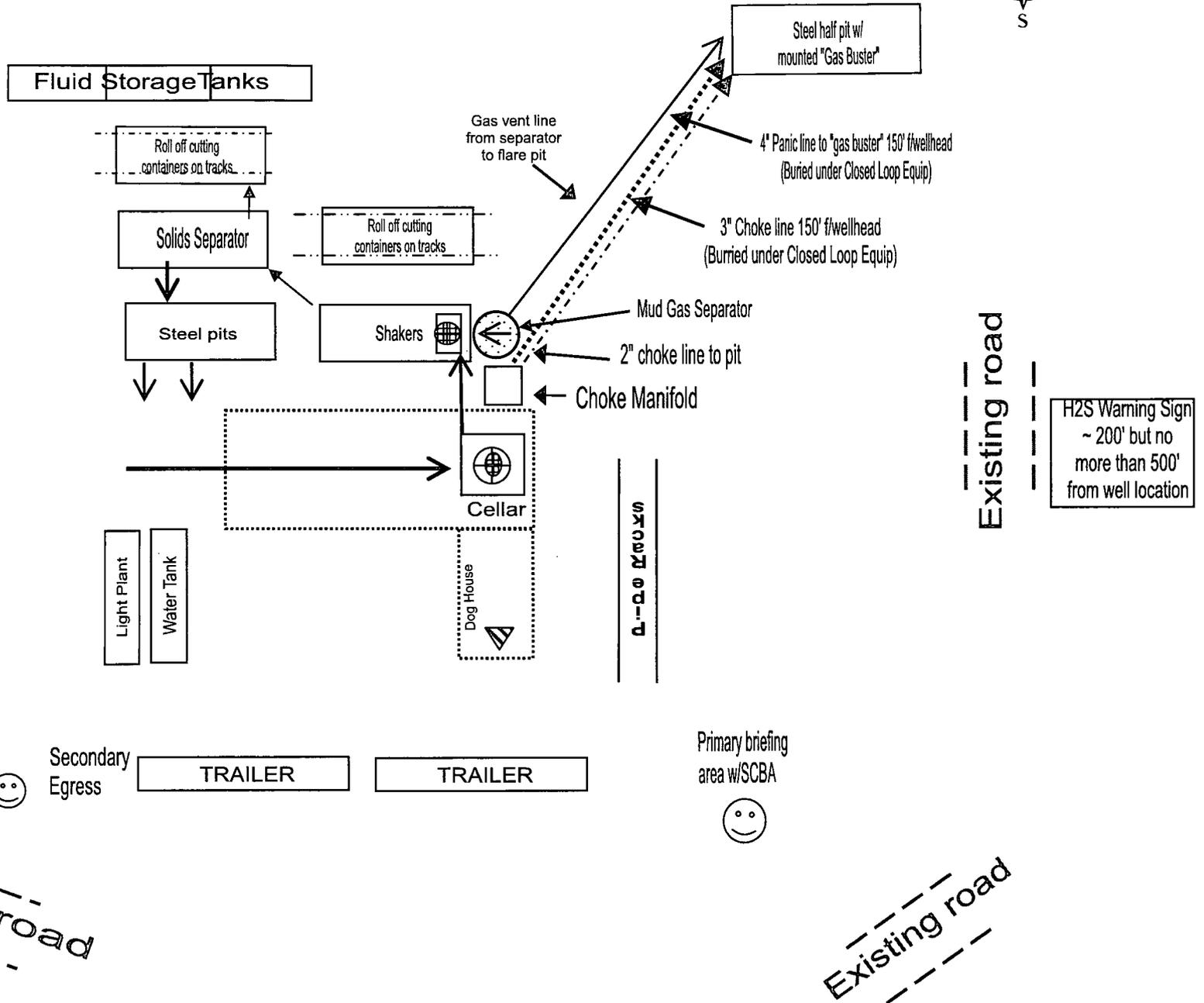
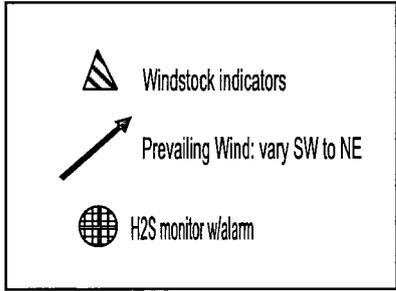
Existing road

Apache

Drilling Location
H2S Safety Equipment Diagram
Exhibit 6



Lee Federal #80



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. "EXHIBIT 7"

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
CD Kemp – Drlg Superintendent	432-818-1977	432-210-3234	
Travis Swaim – Drilling Engineer	281-302-2532	832-472-4365	
Bobby Smith – Drilling Manager	432-818-1020	432-556-7701	
Bill Jones – EH&S Coordinator		432-967-9576	

***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 **CD Kemp** is out of contact, **Barry Green** 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

EXHIBIT #8

WARNING

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CHECK WITH APACHE CORPORATION**

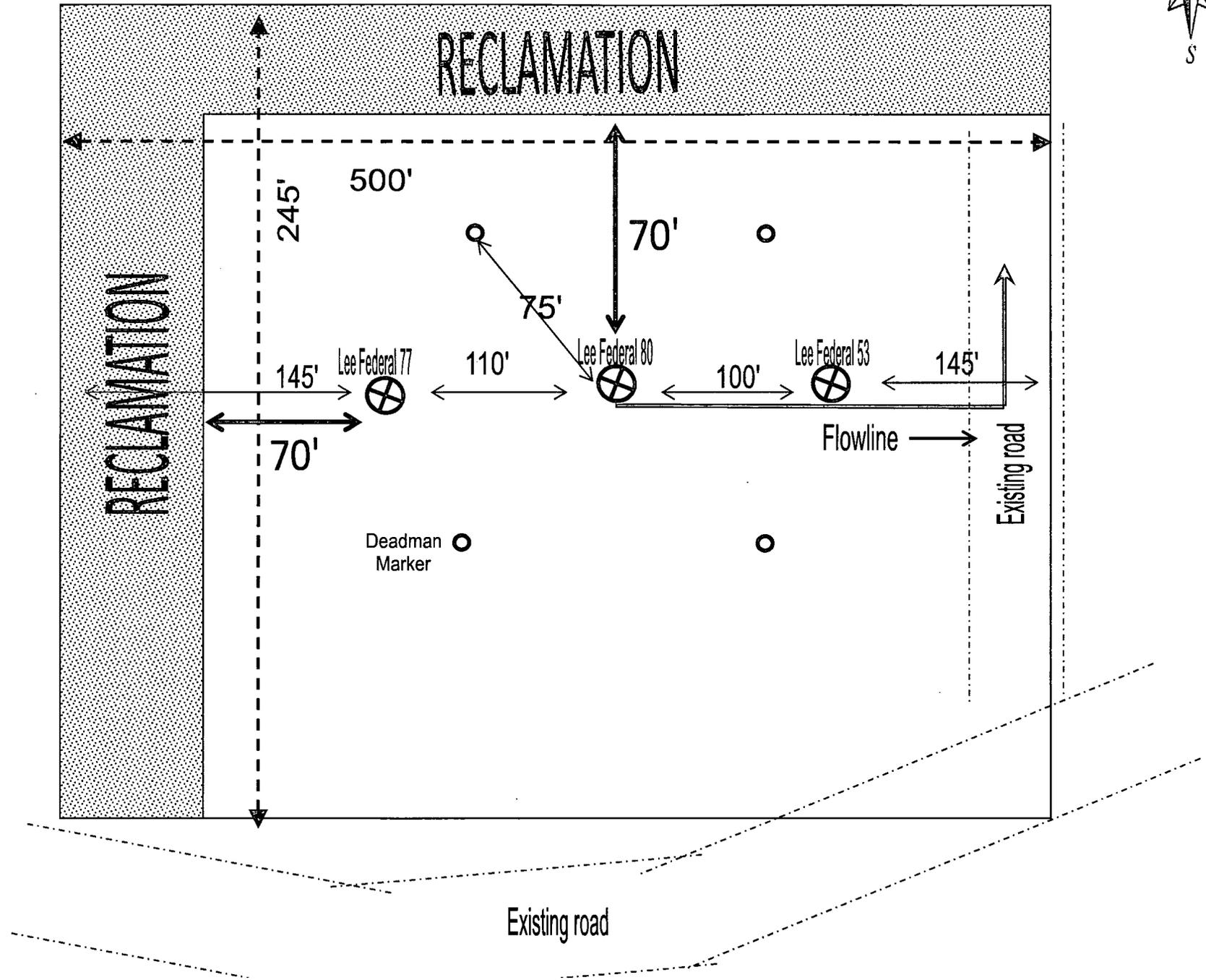
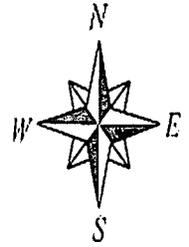
APACHE CORPORATION

1-888-257-6840

INTERIM RECLAMATION LAYOUT

LEE FEDERAL #80

EXHIBIT #7





SURFACE USE PLAN OF OPERATIONS

LEE FEDERAL #80 Lease #: NMLC – 029395B
1550' FSL & 1080' FWL UL: L SEC: 20 T17S R31E
Eddy County, NM

EXISTING ROADS

- A. Proposed Well Site Location:
 - a. The well site & elevation plat for the proposed well are reflected on the well site layout (form C-102). Well staked by John West Surveying Company.
- B. Existing Roads
 - a. From the intersection of US Hwy #82 & CoRd #222 (Shugart), go West on US Hwy 82 approx 0.8 miles, turn Left, go South approx 175', location West approx 220'.
- C. Route Location
 - a. No new road is expected to be constructed. The existing lease road will be used to the extent possible. If a lease/access road needs to be constructed, all lease roads will be graded in compliance with BLM standards. See E (a).
- D. Existing Road Maintenance or Improvement Plan
 - a. *EXHIBIT 1* is a portion of a topo map showing the well & roads in the vicinity of the proposed location. The proposed well site & access route to the location are indicated in *EXHIBIT 1*. Right of way using this proposed route will be requested if necessary.
 - b. Routing grading & maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease. Roads will be maintained according to specifications in "EXISTING ROADS Section E (a)" of this Surface Use Plan.
- E. Width, Max Grade, Turnout Ditches, Culverts, Cattle Guards, & Surface Equipment
 - a. All lease roads will be graded in compliance with BLM standards. All new & reconstructed roads will have a width & "crown design" (i.e. The max width of the driving surface will be 14'. The road will be crowned & ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled & compacted caliche.) If required, culverts and cattle guards will be set per BLM Specs.

LOCATION OF EXISTING WELLS

- A. "EXHIBIT 2" indicates existing wells within a one mile radius of the proposed location.

LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Existing production facilities are located at the Lee Federal Battery location.
- B. New Facilities in the Event of Production

In the event well is productive, APACHE will install a new 4" NUPI rated 300psi up to 140 deg surface flow line, approx 4300' in length, to the existing Lee Federal Battery location following existing lease roads. (Flow line pipe rated @ 300psi, WP: ~80psi, kill switches & chokes will be installed to prevent exceeding 125psi for above ground pipelines.) If electricity is needed, power will be obtained from Central Valley Electric. Path & length will vary pending Central Valley Electric Coop evaluation. Central Valley Electric will apply for ROW for their power lines. "SEE EXHIBIT 1".
- C. Rehabilitation of Disturbed Areas Unnecessary for Production

Following the construction, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography "SEE PLANS FOR RESTORATION OF THE SURFACE"

LOCATION AND TYPE OF WATER SUPPLY

- A. All water (fresh or otherwise) needed for the drilling and completion of this well will be purchased from a commercial source and trucked to the location via existing and/or proposed access roads. No water source wells will be drilled and no surface water will be utilized.

CONSTRUCTION MATERIALS

- A. Materials
On-site caliche will be used for any required access road and/or well site pad. If necessary, caliche will be hauled from a BLM approved pit. No surface materials will be disturbed except those necessary for actual grading and construction of the drill site and access road.

METHODS FOR HANDLING WASTE DISPOSAL

- A. Cuttings
Cuttings will be contained in roll off bins and disposed of hauled to a state approved disposal facility.
- B. Drilling Fluids
Drilling fluids will be contained in steel pits, frac tanks and disposed at licensed disposal sites and/or will be cleaned and reused.
- C. Produced Fluids
Water production will be contained in steel pits. Fluids may be cleaned and reused and/or disposed at a state approved facility. Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks until sold and hauled from site.
- D. Salts
Salts remaining after completion will be picked up by supplier, including broken sacks.
- E. Sewage
Current laws and regulations pertaining to the disposal of human waste will be complied with. A Port-a-John will be provided for the crews. This will be properly maintained during the drilling operations and removed upon completion of the well. Port-a-John will be cleaned out periodically.
- F. Garbage
Receptacles for garbage disposal during the drilling of this well will be provided and equipped to prevent scattering by wind, animals, etc. This waste will be hauled to an approved landfill site.
- G. Cleanup of Well Site
Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicates potential productive zones. Reasonable cleanup will be performed prior to the final restoration of the site.

ANCILLARY FACILITIES

- A. Upon completion, and/or testing of this well, rental tank facilities will be utilized until permanent storage is established. No camps, airstrips or staging are anticipated to be constructed.

WELLSITE LAYOUT

- A. Rig Orientation and Layout
"EXHIBIT 5" shows the dimensions of the well pad, closed loop system and the location of the major rig components. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.
- B. Closed Loop System
A Closed Loop System will be used. Cuttings will be stored in steel roll off bins until they are hauled to a state approved disposal facility.
- C. Location of Access Road
"SEE EXHIBIT 1 & John West Surveying well site pad location plat"

PLANS FOR SURFACE RECLAMATION

- A. Reserve Pit Cleanup
Not applicable. Closed Loop System will be used.
- B. Restoration Plans (Production Developed) *"SEE EXHIBIT 7."*
Those areas not required for production will be graded & recontoured to match surrounding topography and surfacing material will be removed. Topsoil from the soil pile will be loaded over the disturbed area to the extent possible and will be seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. This may need to be modified in certain circumstances to prevent inundation of the locations' pad and surface facilities. Due to the topography of the area, no problems are anticipated and no erosion or other detrimental effects are expected as a result of this operation. Following depletion and abandonment of the site, restoration procedures will be those that follow under *"ITEM C"* of *"PLANS FOR SURFACE RECLAMATION"*.
- C. Restoration Plans (No Production Developed)
With no production developed, the entire surface disturbed by construction of the well site will be restored as closely as possible to its pre-operation appearance, including re-vegetation. Surfacing material will be removed and the site will be recontoured to match surrounding topography with provisions made to minimize erosion. The topsoil, as available, shall be placed in a uniform layer and seeded according to the Bureau of Land Management's stipulations. Due to the topography of the area, no problems are anticipated and no erosion or other detrimental effects are expected as a result of this operation.
- D. Rehabilitation's Timetable
Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

SURFACE OWNERSHIP

- A. Surface Ownership of drill site & access routes:
United States Department of the Interior
c/o Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

OTHER INFORMATION

- A. Terrain, Soil, Vegetation, Wildlife, Surface Use
Slightly rolling hills; Topsoil is made up of caliche and sand; Plants are sparse, primarily grasses, some mesquite & shinnery oak; No wildlife observed but likely that deer, rabbits, coyotes & rodents traverse the area, which are all typical of the semi-arid desert land; Land primarily used for grazing.
- B. Surface Water
There are no ponds, lakes, streams or rivers within several miles of the proposed location.
- C. Water Wells
No known water wells within 1-1/2 miles of the proposed location.
- D. Residences and Buildings
No dwellings within the immediate vicinity of the proposed location.
- E. Historical Sites
None observed.
- F. Archeological Resources
Apache agrees to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with this project. Any location or construction conflicts will be resolved before construction begins.
- G. Onsite: Onsite by Tanner Nygren, BLM Specialist
- H. Well Signs: Well signs will be in compliance per State requirements and specifications
- I. Drilling Contractor: Pending

OPERATOR'S FIELD REPRESENTATIVE

(Field personnel responsible for compliance with development plan for surface use)

DRILLING

Claude (CD) Kemp
Drilling Superintendent
303 Veterans Airpark Ln #1000
Midland, TX 79705
432-818-1977 - office
432-210-3234 – cell

PRODUCTION

Travis Carnes
Sr. Production Foreman
2350 W. Marland Blvd
Hobbs, NM 88240
575-393-2144 – w
432-425-2962 – c

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

OPERATOR CERTIFICATION

I HEREBY CERTIFY THAT I, OR SOMEONE UNDER MY DIRECT SUPERVISION, HAVE INSPECTED THE DRILL SITE AND ACCESS ROUTE PROPOSED HEREIN; THAT I AM FAMILIAR WITH THE CONDITIONS WHICH CURRENTLY EXIST; THAT I HAVE FULL KNOWLEDGE OF STATE AND FEDERAL laws applicable to this operation; that the statements made in 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 12 day of February 2014

Well: LEE FEDERAL #80

Operator Name: APACHE CORPORATION

Signature:  Printed Name: TRAVIS SWAIM

Title: Drilling Engineer Date: 2-11-2014

Email (optional): travis.swaim@apachecorp.com

Street or Box: 303 Veterans Airpark Ln., Ste. 1000

City, State, Zip Code: Midland, TX 79705

Telephone: 281-302-5232

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.

**BUREAU OF LAND MANAGEMENT
CASE RECORDATION
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01 02-25-1920;041STAT0437;30USC226

Total Acres

Serial Number

Case Type 310781: O&G RENEWAL LEASE - PD

609.430

NMLC-- 0 029395A

Commodity 459: OIL & GAS L

Case Disposition: AUTHORIZED Case File Juris:

Serial Number: NMLC-- 0 029395A

Name & Address			Int Rel	%Interest
DEVON ENERGY PROD CO LP	333 W SHERIDAN AVE	OKLAHOMA CITY OK 731025010	OPERATING RIGHTS	0.00000000
LINN ENERGY HOLDINGS LLC	600 TRAVIS ST STE 5100	HOUSTON TX 770023092	OPERATING RIGHTS	0.00000000
MARBOB ENERGY CORP	PO BOX 227	ARTESIA NM 882110227	OPERATING RIGHTS	0.00000000
PITCH ENERGY CORP	PO BOX 304	ARTESIA NM 882110304	OPERATING RIGHTS	0.00000000
ZPZ DELAWARE I LLC	2000 POST OAK BLVD STE 100	HOUSTON TX 770564497	OPERATING RIGHTS	0.00000000
ZPZ DELAWARE I LLC	2000 POST OAK BLVD STE 100	HOUSTON TX 770564497	LESSEE	100.00000000

Serial Number: NMLC-- 0 029395A

Mer Twp	Rng	Sec	SType	Nr Suff	Subdivision	District/Resource Area	County	Mgmt Agency
23	0170S	0310E	018	ALIQ	E2SW,SE;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0170S	0310E	018	LOTS	3-4;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0170S	0310E	019	ALIQ	E2NW,NE;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT
23	0170S	0310E	019	LOTS	1-2;	CARLSBAD FIELD OFFICE	EDDY	BUREAU OF LAND MGMT

Serial Number: NMLC-- 0 029395A

Act Date	Code	Action	Action Remarks	Pending Office
11/03/1930	124	APLN RECD		
11/17/1930	237	LEASE ISSUED		
11/17/1930	496	FUND CODE	05;145003	
11/17/1930	868	EFFECTIVE DATE		
06/29/1950	314	RENEWAL APLN FILED		
11/01/1950	242	LEASE RENEWED	THRU 10/31/60;	
12/27/1950	237	LEASE ISSUED		
11/13/1956	102	NOTICE SENT-PROD STATUS		
11/13/1956	650	HELD BY PROD - ACTUAL		
11/13/1956	658	MEMO OF 1ST PROD-ACTUAL		
05/25/1960	314	RENEWAL APLN FILED		
07/18/1960	237	LEASE ISSUED		
11/01/1960	242	LEASE RENEWED	THRU 10/31/70;	
05/28/1970	314	RENEWAL APLN FILED		
07/15/1970	237	LEASE ISSUED		
11/01/1970	242	LEASE RENEWED	THRU 10/31/80;	
07/16/1980	314	RENEWAL APLN FILED		
11/01/1980	242	LEASE RENEWED	THRU 10/31/90;	
06/05/1981	237	LEASE ISSUED		
03/29/1983	909	BOND ACCEPTED	EFF 03/10/83;NM0490	
09/13/1985	817	MERGER RECOGNIZED	ATL RICHFIELD PA/DE	
02/19/1987	963	CASE MICROFILMED	CNUM 107,076 DS	
03/10/1987	932	TRF OPER RGTS FILED		
06/10/1987	103	ADDTL INFO RECD	MORTGAGE	
06/10/1987	817	MERGER RECOGNIZED	HONDO OG/ATL RICHFLD	
07/08/1987	933	TRF OPER RGTS APPROVED	EFF 04/01/87;	

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**BUREAU OF LAND MANAGEMENT
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07/20/1987	974	AUTOMATED RECORD VERIF	AR/DCE
10/02/1989	932	TRF OPER RGTS FILED	HONDO OG/HARCORN OIL
11/01/1989	933	TRF OPER RGTS APPROVED	EFF 11/01/89;
11/01/1989	974	AUTOMATED RECORD VERIF	MCS/MT
03/16/1990	940	NAME CHANGE RECOGNIZED	HARCORN/SOCORRO PETRO
03/16/1990	974	AUTOMATED RECORD VERIF	GLC/GC
06/21/1990	314	RENEWAL APLN FILED	
11/01/1990	242	LEASE RENEWED	THRU 10/31/00;
11/01/1990	530	RLTY RATE - 12 1/2%	/A/
11/01/1990	868	EFFECTIVE DATE	
02/05/1991	974	AUTOMATED RECORD VERIF	CM/MT
10/01/1992	621	RLTY RED-STRIPPER WELL	2.9%;/1/
01/15/1993	625	RLTY REDUCTION APPV	/1/
02/01/1994	974	AUTOMATED RECORD VERIF	MV/MV
10/20/1994	932	TRF OPER RGTS FILED	SOCORRO PETRO/DEVON
02/07/1995	933	TRF OPER RGTS APPROVED	EFF 11/01/94;
02/07/1995	974	AUTOMATED RECORD VERIF	LBO
11/09/1995	575	APD FILED	
11/24/1995	575	APD FILED	
12/01/1995	575	APD FILED	
12/08/1995	575	APD FILED	
01/09/1996	576	APD APPROVED	38-TURNER A
01/09/1996	576	APD APPROVED	39-TURNER A
01/09/1996	576	APD APPROVED	44-TURNER A
01/09/1996	576	APD APPROVED	50-TURNER A
01/09/1996	576	APD APPROVED	53-TURNER A
01/22/1996	576	APD APPROVED	40-TURNER A
01/22/1996	576	APD APPROVED	43-TURNER A
01/22/1996	576	APD APPROVED	52-TURNER A
01/25/1996	575	APD FILED	
02/15/1996	576	APD APPROVED	41-TURNER A
02/21/1996	576	APD APPROVED	49-TURNER A
03/11/1996	576	APD APPROVED	48-TURNER A
03/25/1996	576	APD APPROVED	45-TURNER A
03/25/1996	576	APD APPROVED	46-TURNER A
03/25/1996	576	APD APPROVED	47-TURNER A
04/08/1996	575	APD FILED	
05/09/1996	575	APD FILED	
06/05/1996	576	APD APPROVED	7-TURNER A
06/05/1996	576	APD APPROVED	8-TURNER A
06/24/1996	575	APD FILED	
09/13/1996	576	APD APPROVED	59-TURNER A
04/24/1997	575	APD FILED	
07/25/1997	576	APD APPROVED	60 TURNER A
07/21/1998	817	MERGER RECOGNIZED	DEVON/DEVON ENERGY NV
07/21/1998	817	MERGER RECOGNIZED	KERR-MCGEE CAN/DEVON
07/21/1998	817	MERGER RECOGNIZED	KERR-MCGEE N/DEVON
07/28/1998	393	DEC ISSUED	KERR/DEVON AMENDED
07/28/1998	974	AUTOMATED RECORD VERIF	BTM
01/25/1999	932	TRF OPER RGTS FILED	(1)ARCO/MARBOB ETAL

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01/25/1999	932	TRF OPER RGTS FILED	(2)ARCO/MARBOB ETAL
02/24/1999	933	TRF OPER RGTS APPROVED	(1)EFF 02/01/99;
02/24/1999	933	TRF OPER RGTS APPROVED	(2)EFF 02/01/99;
02/24/1999	974	AUTOMATED RECORD VERIF	LR
01/31/2000	932	TRF OPER RGTS FILED	MARBOB/MARBOB
03/30/2000	933	TRF OPER RGTS APPROVED	EFF 02/01/00;
03/30/2000	974	AUTOMATED RECORD VERIF	MV/MV
08/04/2000	314	RENEWAL APLN FILED	
11/01/2000	242	LEASE RENEWED	THRU 10/31/2020;
11/01/2000	868	EFFECTIVE DATE	LAST RENEWAL;
11/22/2000	817	MERGER RECOGNIZED	DEVONENE/DEVONENEPD
11/22/2000	974	AUTOMATED RECORD VERIF	AT
01/18/2001	237	LEASE ISSUED	
01/18/2001	974	AUTOMATED RECORD VERIF	GAG;
02/22/2001	899	TRF OF ORR FILED	
12/11/2001	140	ASGN FILED	ATLANTIC RICHFIELD;1
12/11/2001	932	TRF OPER RGTS FILED	ATLANTIC RICHFIELD;1
04/02/2002	139	ASGN APPROVED	EFF 01/01/02;
04/02/2002	933	TRF OPER RGTS APPROVED	EFF 01/01/02;
04/02/2002	974	AUTOMATED RECORD VERIF	MV
06/21/2002	940	NAME CHANGE RECOGNIZED	AMOCO/BP AMERICA PROD
08/08/2002	140	ASGN FILED	DEVON ENERGY PRODUC;1
08/08/2002	932	TRF OPER RGTS FILED	DEVON ENERGY PRODUC;1
10/18/2002	269	ASGN DENIED	08/08/02 ASGN;
10/18/2002	933	TRF OPER RGTS APPROVED	EFF 09/01/02;
10/18/2002	974	AUTOMATED RECORD VERIF	MV
01/01/2003	246	LEASE COMMITTED TO CA	NMNM107714;
10/01/2004	246	LEASE COMMITTED TO CA	NMNM112731;
01/01/2005	522	CA TERMINATED	NMNM107714;
06/01/2005	621	RLTY RED-STRIPPER WELL	2.1%;/2/
06/15/2005	246	LEASE COMMITTED TO CA	NMNM114007;
09/27/2005	940	NAME CHANGE RECOGNIZED	MERIT PTNRS/MERIT MGM
12/08/2005	625	RLTY REDUCTION APPV	/2/
01/12/2006	932	TRF OPER RGTS FILED	BP AMERIC/MARBOB EN;1
02/07/2006	626	RLTY REDUCTION DENIED	
02/21/2006	933	TRF OPER RGTS APPROVED	EFF 02/01/06;
02/21/2006	974	AUTOMATED RECORD VERIF	MV
04/02/2006	974	AUTOMATED RECORD VERIF	ANN
06/14/2007	522	CA TERMINATED	NM-114007;
12/08/2010	932	TRF OPER RGTS FILED	MERIT MAN/LINN ENER;1
02/10/2011	933	TRF OPER RGTS APPROVED	EFF 01/01/11;
02/10/2011	974	AUTOMATED RECORD VERIF	LBO
03/24/2011	140	ASGN FILED	BP AMERIC/ZPZ DELAW;1
05/10/2011	932	TRF OPER RGTS FILED	BP AMERIC/ZPZ DELAW;1
05/12/2011	139	ASGN APPROVED	EFF: 04/01/2011;
05/12/2011	974	AUTOMATED RECORD VERIF	MJD
07/25/2011	933	TRF OPER RGTS APPROVED	EFF: 06/01/2011;
07/25/2011	974	AUTOMATED RECORD VERIF	MJD

Line Nr Remarks

Serial Number: NMLC-- 0 029395A

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0002	/A/ AC 535 RLTY RATE 5% EFF 11/17/1930 THRU 10/31/
0003	10/31/1950. AC 549 RLTY RATE 12 1/2 - 25% SCH C
0004	EFF 11/1/1950 THRU 10/31/1990. AC 530 RLTY RATE
0005	12.5% EFF 11/1/1990.
0006	02/21/2006 LESSEE BONDED WY2924/NW
0007	05/12/2011 - OPERATOR BONDED = NMB000736 S/W

Well-Site Evaluation Field Form

Operator Name: Apache Well Name Lee Fed #80

SHL: Section 20, T. 17 S. R. 31 E. Footage 1550 FSL & 1090 FWL

Well Type: Horizontal **Vertical** Oil Gas NOS/APD Received? NOS APD No

Surface Management Agency (SMA): **BLM** FEE STATE SMA Contacted? **Yes** No

Operator Representative/ Contact Name: Angel Phone 575-390-2970

BLM Onsite Representatives Tanner Nygren Date 3/22/13

Description & Topography: (cut & fill, etc.) Slightly sloping downhill to the west.

Soils: (reseeding strips, etc.) Sandy

Cave Area: low

Hydrogeology: (playas, floodplain, drainages, erosive soils, plant indicators, etc.) Mesquite dominated ; erosive soils

Wildlife: (habitat, LPC, SDL, etc.) LPC

Range Improvements: (fences, etc.) NA

Well Infrastructure

V-Door Direction: E Topsoil: North

Pad Size: 290 x 245

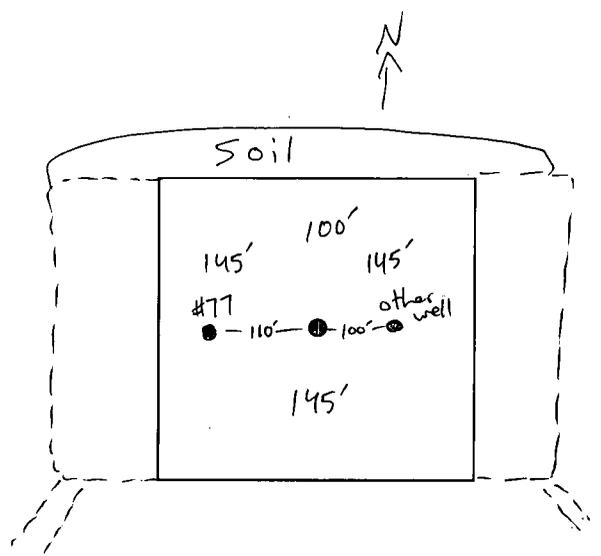
Road Route: Other proposed well

Prod. Facility Placement: off site

Interim Rec: North by 30' ; West by 75'

Other: Sharing pad with #77

Evaluation: (Moved?) ok



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Apache Corporation
LEASE NO.:	NMLC-029395B
WELL NAME & NO.:	Lee Federal 80
SURFACE HOLE FOOTAGE:	1550' FSL & 1080' FWL
LOCATION:	Section 20, 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**
 - Lesser Prairie-Chicken Timing Stipulations
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- Production (Post Drilling)**
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- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period.

Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted.

Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

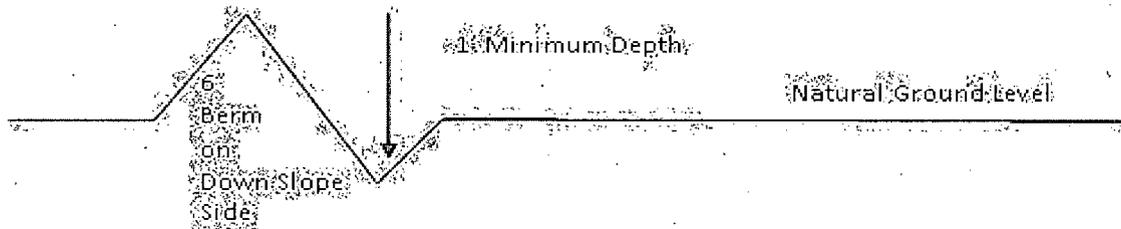
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

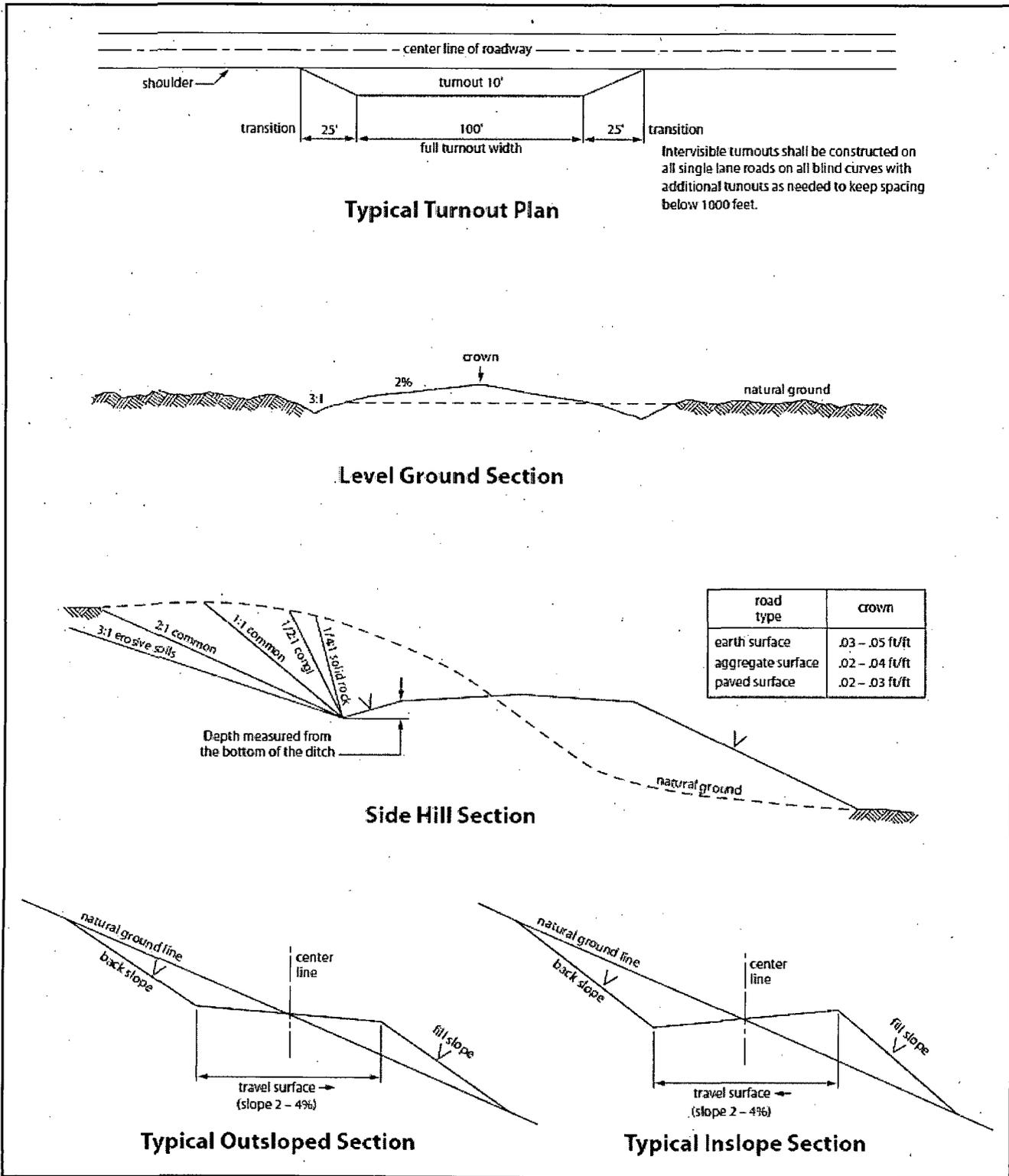


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

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

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.** Operator has stated that if H₂S is encountered in quantities greater than 100 ppm they will shut in the well and install a remote operated choke.
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. **The record of the drilling rate along with the GR/N well log run from TD to surface shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

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

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

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

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

Possibility of water flows in the Artesia Group, Salado, and Queen.

Possibility of lost circulation in the Rustler, Artesia Group, Grayburg, and San Andres.

1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Contingency cement for 8-5/8" casing:

Operator has proposed DV tool at depth of 1800', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi (Installing 3M annular, testing to 2,000 psi)**.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 intermediate casing shoe shall be **2000 (2M) psi (Installing a 3M BOP, testing to 2,000 psi)**.

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. The holder shall be liable for damage or injury to the United States to the extent

provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

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

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize

suspension of the pipeline across low areas in the terrain. In hummocky of dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

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

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

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

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

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

IX. INTERIM RECLAMATION

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

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

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

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

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

X. FINAL ABANDONMENT & RECLAMATION

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

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory

revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

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

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

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

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