15-1148 NM OIL CONSERVATION Form 3160-3 OCD ARTES & DISTRICT OMB No. 1004-0137 (March 2012) Expires October 31, 2014 UNITED STATES DEC **0 2** 2016 Lease Serial No. DEPARTMENT OF THE INTERIOR NM-67980 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTERCEIVED 7. If Unit or CA Agreement, Name and No. **DRILL** REENTER la. Type of work: 8. Lease Name and Well No. 30829 ✓ Oil Well Gas Well Other ✓ Single Zone Multiple Zone SANTA FE FEDERAL 35-14H lb. Type of Well: Name of Operator RKI EXPLORATION & PRODUCTION, LLC 30-015-43982 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address 210 PARK AVENUE, SUITE 900 (405) 987-2226 (Sam McCurdy) 150 II OKLAHOMA CITY, OKLAHOMA 73102 Undesignated-Bone Spring 11. Sec., T. R. M. or Bik. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) SECTION 35, T. 22 S., R. 28 E. At surface 440 FNL & 660 FEL, section 35 At proposed prod. zone 330 FSL & 925 FEL, section 35. 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* **EDDY** NM 6 MILES NORTHEAST OF LOVING, NM Distance from proposed* 17. Spacing Unit dedicated to this well 16 No. of acres in lease SHL: 430' location to nearest BHL: 330 property or lease line, ft. (Also to nearest drig. unit line, if any) 320 160 18. Distance from proposed location* to nearest well, drilling, completed, BHL: 530' 20. BLM/BIA Bond No. on file 19. Proposed Depth NLM-NMB-000460 TVD: 7.460' applied for, on this lease, ft. MD: 11,688 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22 Approximate date work will start* 23. Estimated duration 35 DAYS 3129.8' GL 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. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the Name (Printed/Typed) 25. Signature BARRY W. HUNT Title PERMIT AGENT FOR KI EXPLORATION & PRODUCTION, LLC. Name (Printed/Typed) Approved by (Signature) /s/Cody Layton KITV 3 9 2016 Title Office CARLSBAD FIELD OFFICE FIELD MANAGER 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, 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)

Conditions of approval, if any, are attached.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 Energy, Minerals & Natural Resources Department 0 2 2016 81) S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 OIL CONSERVATION DIVISION 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT I

DISTRICT II

DISTRICT III

DISTRICT IV

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

Revised August 1, 2011

Submit one copy to appropriate District Office

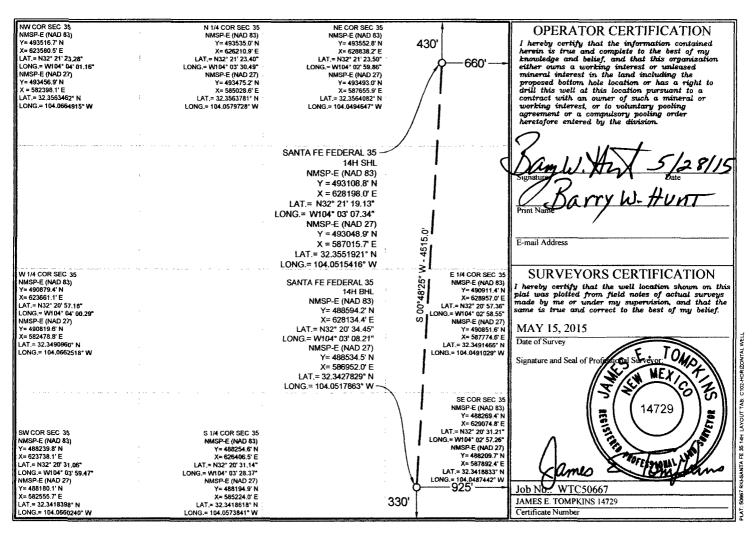
RECEIVED ☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-015-43982				Pool Code 15011		Pool Name UNDESIGNATED BONE SPRING				
Property (3/62/1		13011	Property Name	<u> </u>			Well Number	
. 308	329			1AS	NTA FE FEDE	A FE FEDERAL 35			14H	
OGRID					Operator Name			Elevat	ion	
24628	39			RKI EXPL	ORATION & P	RODUCTION		3129	3129.8'	
	Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Α	35	22 S	28 E 440 NORTH 660			EAST	EDDY			
	- 1	•	Bott	om Hole L	ocation If Diffe	erent From Surfac	e		-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Р	35	22 S	28 E		330	SOUTH	925	EAST	EDDY	
Dedicated Acres	Joint or	·Infill	Consolidated Co	de 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.



SITE LOCATION ARCHEOLOGICAL SURVEY BOUNDARY EL.= 3125.1' LIMITS OF WELL PAD FOR SANTA FE FEDERAL 35-15H 350 EL.= 3121.2' EL.= 3126.4' **PROPOSED** 350' TOP SOIL STOCKPILE AREA WELL PAD LIMITS OF 600'x600' SITE FOR SANTA FE FEDERAL 35-15H 350' SANTA FE FEDERAL 35-14H GR. ELEV. 3129.8' NMSP-E (NAD 83) Y = 493108.8' N X = 628198.0' E LAT.= N32° 21' 19.13" LONG.= W104° 03' 07.34" × NMSP-E (NAD 27) Y = 493048.9' N X = 587015.7' E LAT.= 32.3551921° N LONG.= 104.0515416° W EL.= 3132.21 350 EL.= 3124.0' EL.= 3133.11 600' 100 100 200 FEET

SCALE: 1" = 100

SECTION 35, T 22 S, R 28 E, N.M.P.M.

COUNTY: EDDY

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



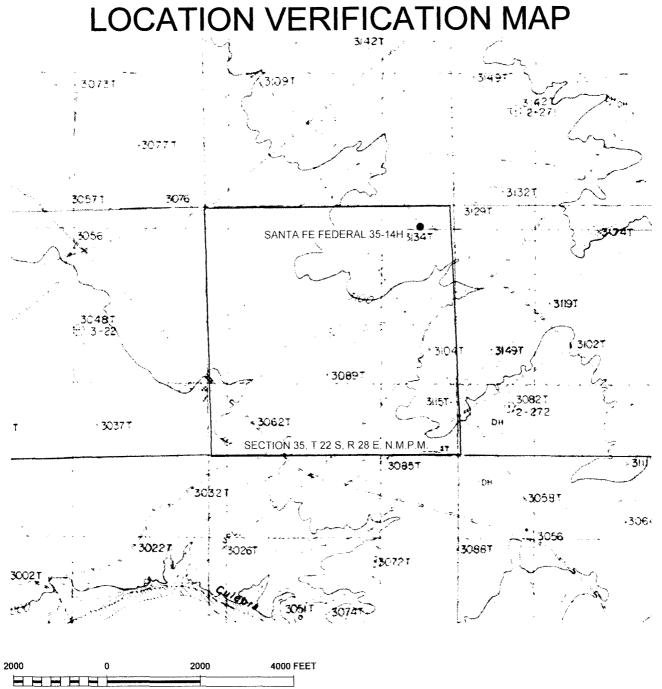
DRIVING DIRECTIONS:

From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ±0.1 mile to the north.



NTC, INC. 405 S.W. 1st Street Andrews, TX 79714 (432) 523-2181

RKI EXPLORATION & PRODUCTION



SCALE: 1" = 2000"

SECTION 35, T 22 S, R 28 E, N.M.P.M.

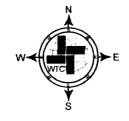
COUNTY: EDDY

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



DRIVING DIRECTIONS:

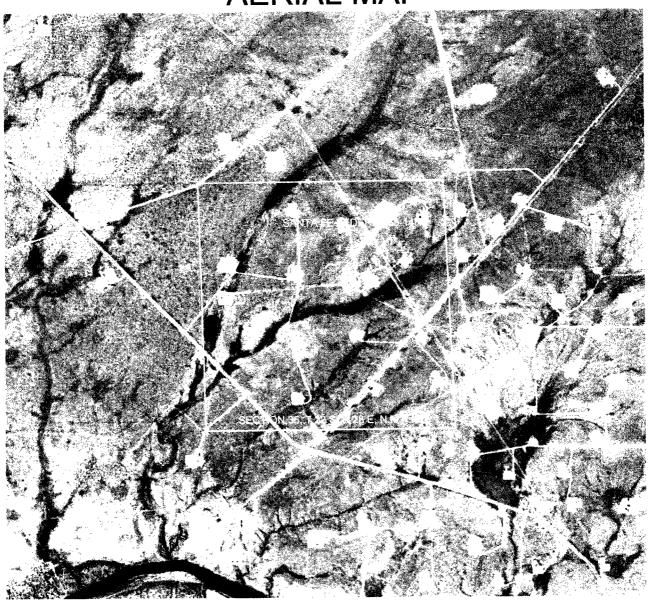
From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ±0.1 mile to the north.



W T C, INC.

RKI EXPLORATION & PRODUCTION

AERIAL MAP



2000 0 2000 4000 FEET

SCALE: 1" = 2000'

SECTION 35, T 22 S, R 28 E, N.M.P.M.

COUNTY: EDDY STA

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



DRIVING DIRECTIONS:

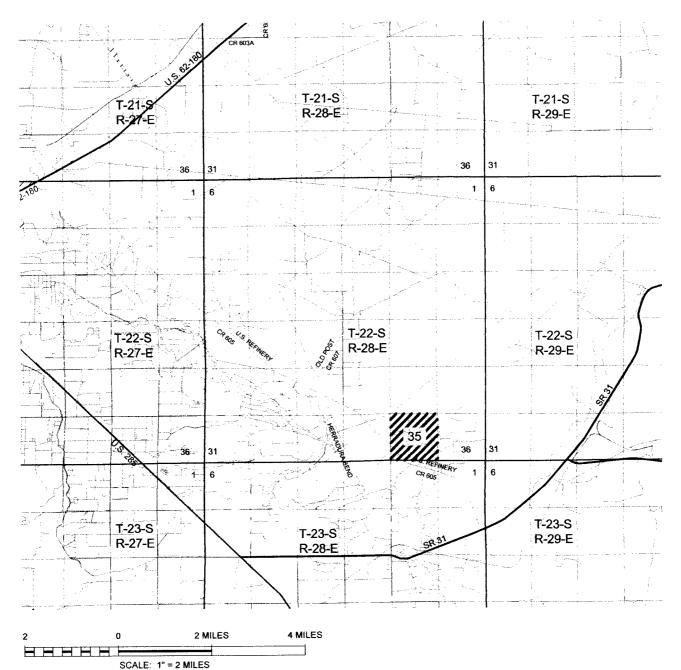
From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ± 0.1 mile to the north.



WTC, INC. 405 S.W. 1st Street Andrews, TX 79714 (432) 523-2181

RKI EXPLORATION & PRODUCTION

VICINITY MAP



SECTION 35, T 22 S, R 28 E, N.M.P.M.

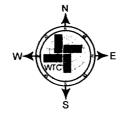
COUNTY: EDDY

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



DRIVING DIRECTIONS:

From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ± 0.1 mile to the north.



WTC, INC. 405 S.W. 1st Street Andrews, TX 79714 (432) 523-2181

RKI EXPLORATION & PRODUCTION

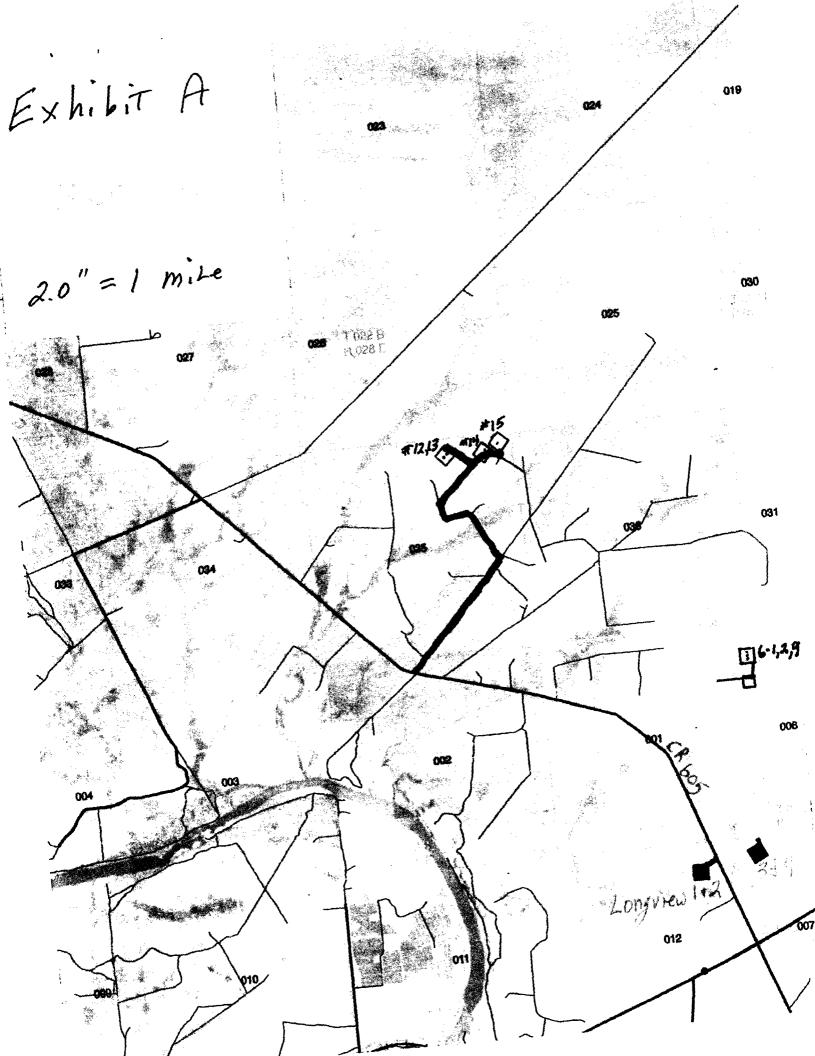
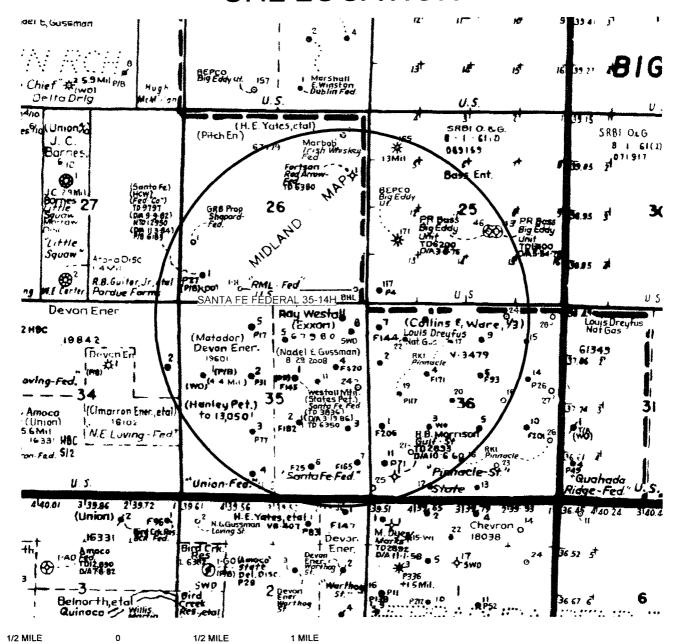


Exhibit B

SHL LOCATION



SCALE: 1" = 1/2 MILE

SECTION 35, T 22 S, R 28 E, N.M.P.M.

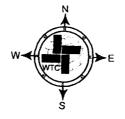
COUNTY: EDDY

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



DRIVING DIRECTIONS:

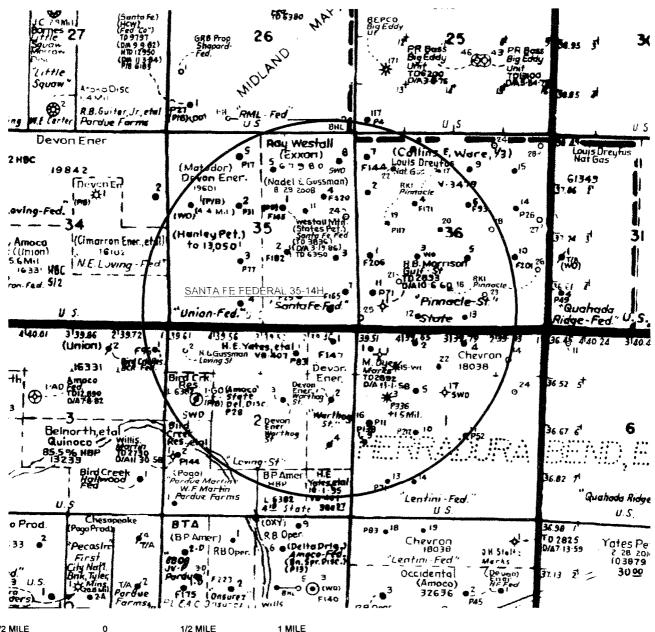
From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ± 0.1 mile to the north.



WTC, INC. 405 S.W. 1st Street Andrews, TX 79714 (432) 523-2181

RKI EXPLORATION & PRODUCTION

BHL LOCATION



1/2 MILE

1 MILE

SCALE: 1" = 1/2 MILE

SECTION 35, T 22 S, R 28 E, N.M.P.M.

COUNTY: EDDY

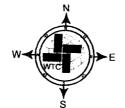
HHHHH

STATE: NM

DESCRIPTION: 440' FNL & 660' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: SANTA FE FEDERAL 35-14H



DRIVING DIRECTIONS:

From the intersection of New Mexico State Highway 31 and County Road 605. Go north on County Road 605 for 2.3 miles to a lease road right. Go right for 0.9 mile to lease road left. Go left for 0.2 mile to lease road left. Go left for 0.1 mile to lease road right. Go right 0.1 mile and the location flag is ±0.1 mile to the north.



WTC, INC. 405 S.W. 1st Street Andrews, TX 79714 (432) 523-2181

RKI EXPLORATION & PRODUCTION

RKI Exploration & Production, LLC Drilling Program

Weii

Santa Fe Federal 35-14H

Bottom Hole:

Location

Surface:

430 FNL

300 FSL

660 FEL 925 FEL

Sec 35-22S-28E Sec 35-22S-28E

County State

Eddy

New Mexico

- 1) The elevation of the unprepared ground is 3,130 feet above sea level.
- 2) The geologic name of the surface formation is Quaternary Alluvium.
- 3) A rotary rig will be utilized to drill the well to 11,688 feet and run casing. This equipment will then be rigged down and the well will be completed with a workover rig.
- 4) Proposed depth is 11,688 feet measured depth.

5) Estimated tops:

	<u>MD</u>	TVD	<u>Fluid</u>	•
Rustier	966	996	Freshwater	
Salado	1,100	1,100		
Base Lamar Lime	2,783	2,783		
Delaware Top	2,825	2,825	Oil	ВНР
Cherry Canyon Sand	3,818	3,818	Oil	1,680 psi
Kingrea	5,273	5,273	Oil	2,320 psi
KOP	6,816	6,816		2,999 psi
Bone Spring Lime	6,350	6,350	Oil	2,794 psi
Bone Spring 1st SS	7,522	7,386	Oil	3,250 psi
Bone Spring 1 SS TT	7,816	7,460	Oil	3,282 psi
Landing Point	7,816	7,460		3,282 psi
Total Depth	11,688	7,460	Oil	230 Degrees F

3,872 MD Lateral Length

Water anticipated at 180 ft.

6) Pressure control equipment:

The blowout preventer equipment will be 5,000 psi rated as shown in the attached BOP diagram and consist of the following:

Annular preventer

Pipe rams

Blind rams

Pipe rams

Drilling spool or blowout preventer with 2 side outlets (choke side shall be a 3" minimum diameter, kill side shall be at least 2" diameter

Choke line shall be 3" minimum diameter

2 choke line valves, 3" minimum diameter

2 chokes with 1 remotely controlled from the rig floor

Kill line, 2" minimum diameter

2 kill line valves and a check valve, 2" minimum diameter

Upper and lower kelly cock valves with handles readily available

Safety valves and subs to fit all drill string connections in use shall be readily available

Inside BOP or float available

Pressure gauge on choke manifold

All BOPE subjected to pressure shall be flanged, welded, or clamped

Fill-up line above uppermost preventer

See COA

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (5,000 psi WP) preventer, a bag-type annular preventer (5,000 psi WP), and a rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and pipe rams (sized to accommodate the drill pipe size being utilized) on bottom. A 13 3/8" SOW x 13 5/8" 5M multi-bowl casing head will be installed and utilized until Total Depth is reached. The 9 5/8" casing will be landed in the head on a casing mandrel, and the stack will not be broken until total depth has been reached. Before drilling out the 9 5/8" casing will be tested to .22 psi/ft of casing setting depth or 1,500 psi whichever is greater, but not exceeding 70% of the burst rating of the pipe. After drilling approximately 10 feet of new formation an EMW test of 11.0 ppg will be performed. Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole. These function tests will be documented on the daily driller's log.

^{*}Note: All mineral resources encountered will be protected by running casing and raising cement across all encountered resources.

7) Casing program:

Hole	Тор	Bottom	OD Csg	Weight	Grade	Connection	Burst	Pressure	Burst
Size								Max	SF
17 1/2"	0	1.000 375	13 3/8"	54.5	J-55	STC	2730	468	5.83
12 1/4"	0	2,783	9 5/8"	40	HCL-80	LTC	5750	1447	3.97
8 3/4"	0	11,688	5 1/2"	20	P-110	BTC	12630	10000	1.26
								'Burst SF = E	Burst / Pinax
Hole	Тор	Bottom	OD Csg	Weight	Grade	Connection	Collapse	Mud	Collapse
Size		-151						Weight	SF
17 1/2"	0	1,000 375	13 3/8"	54.5	J-55	STC	1580	9.0	3.38
12 1/4"	0	2,783	9 5/8"	40	HCL-80	LTC	4230	10.0	2.92
8 3/4"	0	11,688	5 1/2"	20	P-110	BTC	12100	11.5	1.73
						*Col	lapse SF = [Coll	apse/(mw x 0 d	052 x Depth)
Hole	Тор	Bottom	OD Csg	Weight	Grade	Connection	Tension	Tension	Tension
Size		315	•					Load	SF
17 1/2"	0	1,000	13 3/8"	54.5	J-55	STC	420000	54500	7.71
12 1/4"	0	2,783	9 5/8"	40	HCL-80	LTC	936000	111320	8.41
8 3/4"	0	11,688	5 1/2"	20	P-110	BTC	641000	233754	2.74

^{*}All casing load assumptions are based on Air Wt. Burst design assumes Max Frac Pressure (10K), & Collapse design assumes evacuated & max Mud Weight during interval.

Minimum Design Standards

Collapse 1.1 All casing will be new

Burst 1 Casing design subject to revision based on geologic conditions encountered

Tension 1.9

o١	Comont	program:
OI.	Cement	DIORIAIII:

17 1/2" hole Surface 13 3/8" Pipe OD Setting Depth 1,000 ft 0.6947 cf/ft Annular Volume 200 Tail 36.5 Shoe Joint

100 % Excess 1 383 ft

Lead 642 sx 1.75 cf/sk 13.5 ppg 9.13 gal/sk Tail 200 sx 1.33 cf/sk 14.8 ppg 6.32 gal/sk

> "C" + 4% PF20 (gel) + 2% PF1 (CC) + .125 pps PF29 (CelloFlake) + .4 pps PF46 (antifoam) Lead:

Tail: "C" + 1% PF1 (CC)

> Top of cement: Surface

3 centralizers on bottom 3 jts 1 per jt, then 1 every other jt

12 1/4" hole Intermediate Pipe OD 9 5/8" **Setting Depth** 2,783 ft Annular Volume 0.3132 cf/ft

5,500-ft DV Tool

60 % Excess 1st Stage 0.6 160 % 2nd Stage 1.6

Stage 1:

120 7.609 gal/sk 1.48 cf/sk 13 ppg Lead

0.323 cf/ft

DV tool:

PVL + 1.3% PF44 + 5% PF174 + .5% PF606 + .4% PF13 + .1% PF153 + .4 pps PF45 Lead:

1 per joint bottom 3 joints, then 1 every 3th jt

below prendres Thos, 200' above cumons Stage 2:

5,500 ft

2.87 cf/sk 11.6 ppg 16.793 gal/sk Lead 1308 sx 6.331 gal/sk Taií 175 sx 1.33 cf/sk 14.8 ppg

> 35/65 Poz "C" + 5% PF44 + 6% PF20 + .2% PF13 + .125 ps PF29 + .4 pps PF46 Lead:

"C" + .2% PF13 Tail:

Top of cement:

Top of cement: SURFACE

1 per joint bottom 3 joints, then 1 every 3th jt

Production 8 3/4" hole Pipe OD (in OH) 5 1/2" 11,688 ft Setting Depth

0.2526 cf/ft Annular Volume 0.2526 cf/ft

Excess 0.35 35 %

7.573 gal/sk 956 sx 1.47 cf/sk 13 ppg Lead 879 sx 1.89 cf/sk 9.632 gal/sk Tail 13 ppg

> PVL +1.3% PF44 + 5% PF174 + .5% PF606 + .3% PF 813 + .1% PF153 +.4pps PF45 Lead:

AcidSolid PVL + 5% PF174 + .7% PF606 + .2% PF153 + .5% PF13 + 30% PF151 + .4 pps PF47 Tail:

2,483 ft Top of cement:

1 per joint bottom 3 joints, then every 3rd joint to top of cement

9) Mud program:

Fluid Loss PV YΡ Type System Top Bottom Mud Wt. Vis Fresh Water ND 1.000 1-6 1-6 NC 0 8.3 to 8.5 28 to 30 NC Brine 2,783 9.8 to 10 28 to 30 1 - 10 1 - 12 2,783 6,816 8.8 to 9.3 35 to 40 8 - 10 10 - 12 NC Cut Brine **Cut Brine** 6,816 11,688 9.3 to 10.5 45 to 55 8 - 12 6 - 10 10 to 15

^{*}NOTE: A cement bond log will be rain across 9.5/8" Intermediate casing

^{*}Enough Barity will be stored on location to seeght up mod system to an 11.5 ppg mod weight if needed (27%) > 6 on 9.3 ppg to 11.5 ppg - 2000 bbl system). Formula, Barite Remored (lbs) = [135-05 × (Wf-Will/135-05-Wil) > Med Volume (gals).

Pasen PVT equipment will inomite all pill levels of all times on the event an influx or curred

10) Logging, coring, and testing program:

No drill stem test or cores are planned KOP to intermediate: CNL, Caliper, GR, DLL

Intermediate to surface: CNL, GR

11) Potential hazards:

No abnormal pressure or temperature is expected. No H2S is known to exist in the area, although some form of H2S detection equipment will be utilized. If H2S is encountered the operator will comply with the provisions of Onshore Order No. 6. Lost circulation is not anticipated, but lost circulation material and weighting materials will be on location and readily available.

12) Anticipated start date ASAP Duration 35 days

RKI Exploration & Production, LLC **Completion Procedure**

Well

Santa Fe Federal 35-14H

Location

Surface: 430 FNL

Bottom Hole:

300 FSL

660 FEL 925 FEL Sec. 35-22S-28E Sec. 35-22S-28E

County State

Eddy

New Mexico

Hole Size	Тор	Bottom	OD Csg	Wt/Grade	Connection	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"	0	1000	13 3/8"	54.5	J-55	3.38	5.83	7.71
12 1/4"	0	2783	9 5/8"	40	HCL-80	2.92	3.97	8.41
8 3/4"	0	11687.7	5 1/2"'	20	P-110	1.73	1.26	2.74

TD 11,688 ft MD 7,460 ft TVD

MIRU work over rig and NU BOP. Run CBL/GR log to confirm TOC 1)

2) Fracture stimulate in 10 to 15 stages:

	2500 gal 25000 gal			15% HCL Linear 25# gel
	30000 gal	0.5 ppg	15000 100 mesh	Linear 25# gel
	20000 gal			Lightning 20
	20000 gal	0.5 ppg	10000 40/70 White Sand	Lightning 20
	30000 gal	1 ppg	13000 40/70 White Sand	Lightning 20
	20000 gal	1.5 ppg	37500 40/70 White Sand	Lightning 20
	20000 gal	2 ppg	50000 40/70 White Sand	Lightning 20
	25000 gal	2.5 ppg	95500 40/70 White Sand	Lightning 20
	30000 gal	3 ppg	95500 40/70 White Sand	Lightning 20
	15000 gal	2 ppg	95500 40/70 CRC Sand	Lightning 20
Flush	237500 gal total		250000 lb total	Treated water

Repeat for remaining stages

- 3) Flow back and test
- 4) TIH and drill out frac plugs or sleeves
- 5) Run production equipment and place well on production
- 6) Stimulation Fluid: See attached chemical sheet

Surface treating pressure 6500 psi Max injection pressure 8500 psi Anticipated frac height 75 ft Anticipated frac length 500 ft

Disposal Disposal

WELL DETAILS: Sante Fe Fed 35-14H

Northing 493108.80

Easting 628198.00 Ground Level:

3129.8 Latittude Longitude 32° 21' 19.127 N 104° 3' 7.336 W

35-14H SHL 430' FNL 660' FEL 35-22S-28E 35-14H BHL 330' FSL 925' FEL 35-22S-28E



MAzimuths to Grid North True North: -0.15° Magnetic North: 7.83°

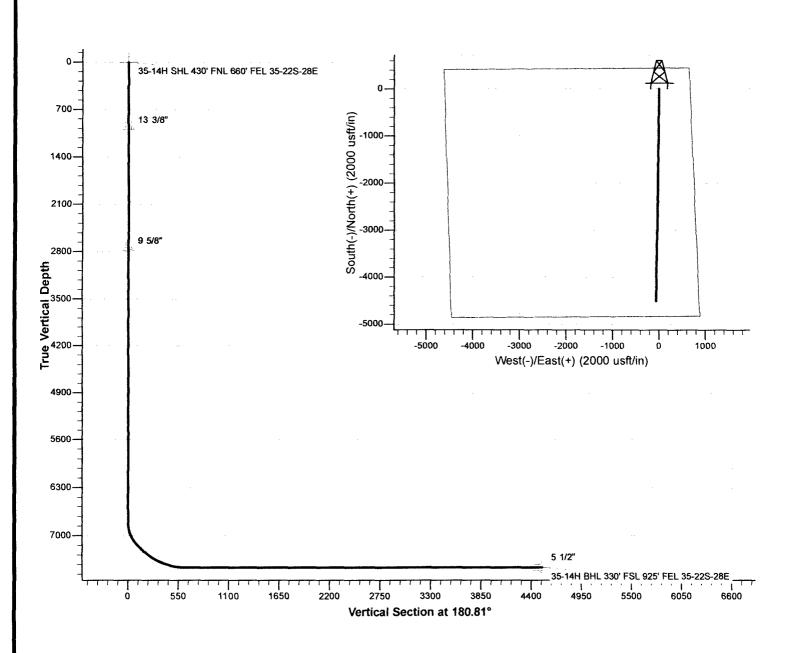
> Magnetic Field Strength: 48820.2snT Dip Angle: 60.28° Date: 12/31/2009 Model: IGRF200510

SECTION DETAILS

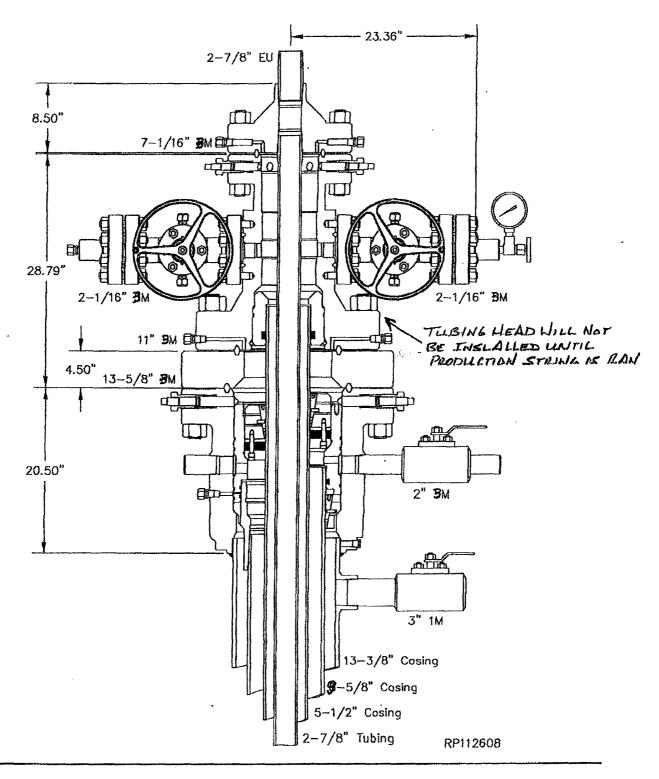
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.0
6816.3	0.00	0.00	6816.3	0.0	0.0	0.00	0.0
7266.3	45.001	80.81	7221.5	-167.8	-2.4	10.00	167.8
7366.3	45.001	80.81	7292.2	-238.5	-3.4	0.00	238.5
7816.3	90.001	80.81	7460.0	-643.6	-9.1	10.00	643.7
11687.7	90.001	80.81	7460.0	-4514.6	-63.6	0.00	4515.0

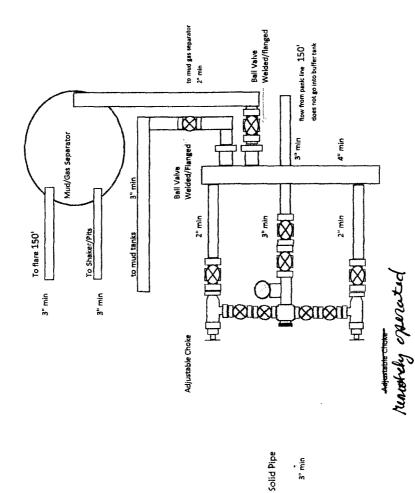
FORMATION TOP DETAILS

Formation	MD	TVD
Base Lamar	2783.0	2783.0
Delaware	2825.0	2825.0
Cherry Canyon	3818.0	3818.0
Kingrea	5273.0	5273.0
BS Lime	6350.0	6350.0
BS 1 SS	7521.9	7386.0
BS 1 SS TT	7816.3	7460.0



GE DILY Gas multi-bowl wellhead





5,000 psi Manifold

5,000 psi Stack

Fill Line

Blind Rams SM

Pipe Rams SM

Wed Ones

13.5F. 3M

13.5F. 3M

13.5F. 3M

RKI Exploration and Production 3817 N. W. Expressway, Suite 950 Oklahoma City, OK. 73112

Closed Loop System

Design Plan

Equipment List

- 2-414 Swaco Centrifuges
- 2-4 screen Mongoose shale shakers
- 2-250 bbl. tanks to hold fluid
- 2 CRI Bins with track system
- 2-500 bbl. frac tanks for fresh water
- 2 500 bbl. frac tanks for brine water

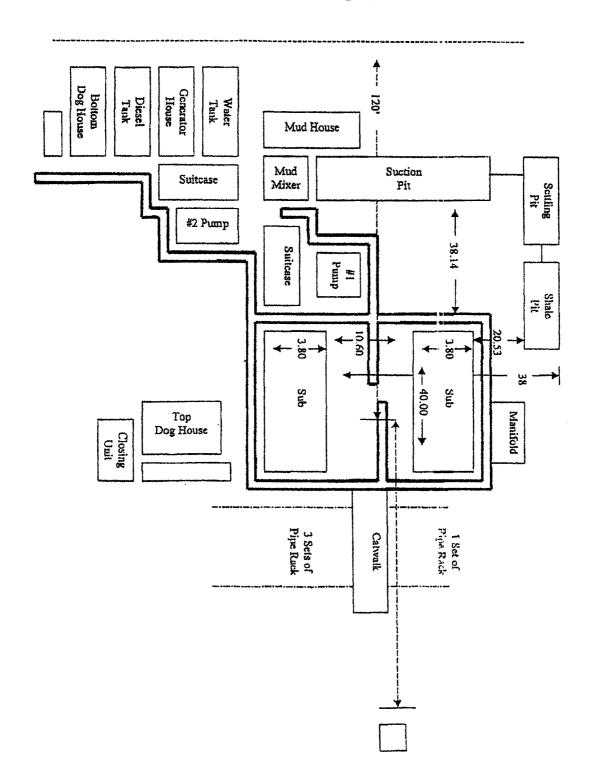
Operation and Maintenance

- Closed Loop equipment will be inspected daily by each tour and any necessary maintenance performed
- Any leak in system will be repaired and/or contained immediately
- OCD notified within 48 hours
- Remediation process started

Closure Plan

During drilling operations, all liquids, drilling fluids and cuttings will be hauled off via CRI (Controlled Recovery Incorporated). Permit #: R-9166.

Plat for Closed Loop System



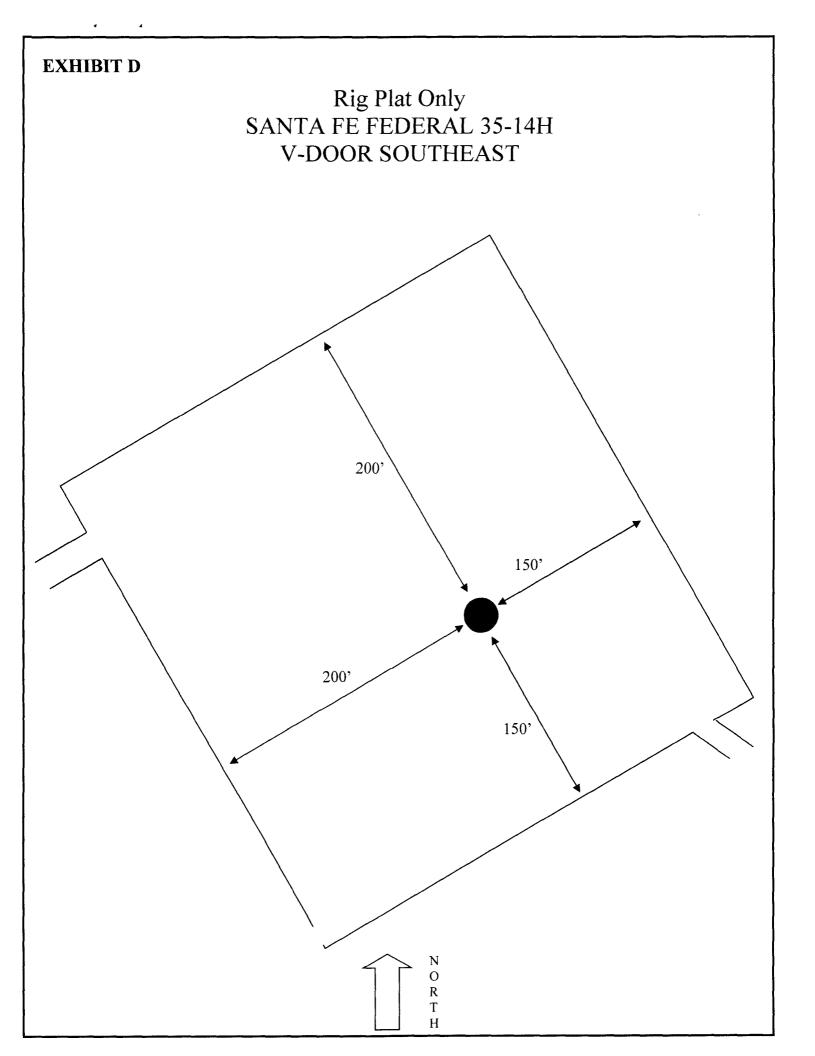


EXHIBIT C Interim Reclamation & Production Facilities SANTA FE FEDERAL 35-14H V-DOOR SOUTHEAST 150' 150' 100' **Existing Road** Existing Road 150' 2002 **LEGEND** Well Bore Topsoil **NORTH** Interim **Production Facilities** Reclamation

SURFACE USE PLAN

RKI Exploration & Production, LLC SANTA FE FEDERAL 35-14H

Surface Hole: 440' FNL & 660' FEL

Section 35, T. 22 S., R. 28 E

Bottom Hole: 330' FSL & 925' FEL

Section 35, T. 22 S., R. 28 E Eddy County, New Mexico

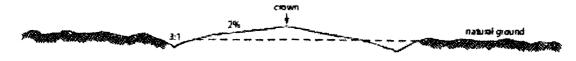
This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

- A. DIRECTIONS: Go east of Carlsbad, NM, on Highway 62/180, for 1.2 miles. Turn southeast onto County Road 605 (Refinery Road) for 10.0 miles. Turn northeast on lease road for 0.7 miles, then north for 0.3 miles. Turn west, north and east, following lease road, for 0.6 mile. The proposed well is next to the existing roadway. All existing roads are either paved or a caliche lease road.
- B. See attached plats and maps provided by WTC Surveys.
- C. The access routes from County Road 605 to the well location is depicted on **Exhibit A.** The route highlighted in red is all on lease or on state lands and no road ROW is required..
- D. Existing roads on the access route will be improved and maintained to the standard set forth in Section 2 of this Surface Use Plan of Operations.

2. NEW OR RECONSTRUCTED ACCESS ROADS:

- A. The existing lease road enters and exits proposed well location with no new road required for this well.
- B. The maximum width of the driving surface will be 14 feet. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

- C. Surface material will be native caliche. The average grade of the entire road will be approximately 3%.
- D. Fence Cuts: No E. Cattle guards: No

F. Turnouts: No

G. Culverts: No

H. Cuts and Fills: Not significant

- I. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- J. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.
- K. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: <u>Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.</u>

3. LOCATION OF EXISTING WELLS:

See attached map (Exhibit B) showing all wells within a one-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. In the event the well is found productive, the production facility (Tank Battery), will be installed on the southwest portion of this single well pad (SEE EXHIBIT C). A buried 8" steel gas pipeline, applied for under the #12H & #13H APD's will be run into the southwest corner of the well as well as a buried 6" SWD pipeline.
- B. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted to BLM specifications.
- C. Containment berms will be constructed completely around production facilities designed to hold fluids. The containment berns will be constructed or compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.

5. LOCATION AND TYPE OF WATER SUPPLY:

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from commercial water stations in the area and hauled to the location by transport truck using the existing and proposed roads shown in the attached survey plats. If a commercial water well is nearby, a temporary, surface poly line, will be laid along existing roads or other ROW easements and the water pumped to the well. No water well will be drilled on the location.

6. SOURCE OF CONSTRUCTION MATERIALS:

Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from Federal lands without prior approval from the appropriate surface management agency. All roads will be constructed of 6" rolled and compacted caliche.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- B. Drilling fluids will be contained in steel mud pits.
- C. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- F. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location, not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

8. ANCILLARY FACILITIES:

No campsite, airstrip, or other facilities will be built as a result of the operation of this well. No staging areas are needed.

9. WELL SITE LAYOUT:

- A. **Exhibit D** shows the dimensions of the proposed well pad.
- B. The proposed single well pad size will be 350' x 350' (See Exhibit D). There will be no reserve pit due to the well being drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- C. The WTC Surveyor's plat, Site Location Plat, and **Exhibit D**, shows how the well will be turned to a V-Door Southeast.
- D. A 600' x 600' area has been staked and flagged.
- E. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad, and topsoil storage areas)

10. PLANS FOR SURFACE RECLAMATION:

- A. After concluding the drilling and/or completion operations, if the well is found non-commercial, all the equipment will be removed, the surface material, caliche, will be removed from the well pad and road and transported to the original caliche pit or used for other roads. The original stock piled top soil will be returned to the pad and contoured, as close as possible, to the original topography. The access road will have the caliche removed and the road ripped, barricaded and seeded as directed by the BLM.
- B. If the well is a producer, the portions of the location not essential to production facilities or space required for workover operations, will be reclaimed and seeded as per BLM requirements.

(SEE EXHIBIT C FOR INTERIM RECLAMATION PLAT FOR THIS WELL)

C. Reclamation Performance Standards

The following reclamation performance standards will be met:

Interim Reclamation - Includes disturbed areas that may be redisturbed during operations and will be

redisturbed at final reclamation to achieve restoration of the original landform and a natural vegetative community.

• Disturbed areas not needed for active, long-term production operations or vehicle travel will be recontoured, protected from erosion, and revegetated with a self-sustaining, vigorous, diverse, native (or as otherwise approved) plant community sufficient to minimize visual impacts, provide forage, stabilize soils, and impede the invasion of noxious, invasive, and non-native weeds.

Final Reclamation – Includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be redisturbed for future development.

- The original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors.
- A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site, with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.
- Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.
- The site will be free of State- or county-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds are controlled.

D. Reclamation Actions

Earthwork for interim and final reclamation will be completed within 6 months of well completion or plugging unless a delay is approved in writing by the BLM authorized officer.

The following minimum reclamation actions will be taken to ensure that the reclamation objectives and standards are met. It may be necessary to take additional reclamation actions beyond the minimum in order to achieve the Reclamation Standards.

Reclamation – General

Notification:

• The BLM will be notified at least 3 days prior to commencement of any reclamation operations.

Housekeeping:

- Within 30 days of well completion, the well location and surrounding areas(s) will be cleared of, and maintained free of, all debris, materials, trash, and equipment not required for production.
- No hazardous substances, trash, or litter will be buried or placed in pits.

Topsoil Management:

- Operations will disturb the minimum amount of surface area necessary to conduct safe and efficient operations.
- Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the topsoil will be stripped and stockpiled around the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil will include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.
- Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment or so dry that dust clouds greater than 30 feet tall are created. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- No major depressions will be left that would trap water and cause ponding unless the intended purpose is to trap runoff and sediment.

Seeding:

- <u>Seedbed Preparation</u>. Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4 6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- <u>Seed Application</u>. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. SURFACE OWNERSHIP:

A. The surface is owned by the U. S. Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.

12. OTHER INFORMATION:

- A. The area surrounding the well site is in a gentle sloped, shallow gravelly loam, rolling hills type area. The vegetation consists of Mesquite, Creosote, Whitethorn Acacia with three-awns and some dropseed species.
- B. There is no permanent or live water in the immediate area.
- C. There are no dwellings within 2 miles of this location.
- D. A class III archaeological report has been filed in the Carlsbad Field Office of the BLM by Boone Archaeological Services.

13. BOND COVERAGE:

4 7

Bond Coverage is Nationwide; Bond Number NMB-000460.

OPERATORS REPRESENTATIVE:

The RKI Exploration and Production, LLC representatives responsible for ensuring compliance of the surface use plan are listed below:

Surface:

Barry W. Hunt – Permitting Agent 1403 Springs Farm Place Carlsbad, NM 88220 (575) 885-1417 (Home) (575) 361-4078 (Cell)

Drilling & Production:

Ken Fairchild – RKI Exploration and Production, LLC. 210 Park Avenue, Suite 900 Oklahoma City, Ok.73102 (405) 996-5764 (Office) (469) 693-6051 (Cell)

ON-SITE PERFORMED ON 10/24/12 RESULTED IN PROPOSED LOCATION BEING MOVED 180 FT. SOUTH AND 125 FT. EAST SO AS TO AVOID A GAS PIPELINE TO THE NORTHEAST. IT WAS AGREED TO TURN THE LOCATION TO A V-DOOR SOUTHEAST (TO PARALLEL PIPELINE). PLACE THE TOP SOIL TO THE NORTHWEST, BATTERY TO THE SOUTHWEST AND INTERIM RECLAMATION TO BE ON THE NORTHEAST AND NORTHWEST SIDE OF THE PAD. NO ACCESS ROAD WILL BE REQUIRED.

PRESENT AT ON-SITE:
BARRY HUNT – PERMIT AGENT FOR RKI EXPLORATION & PRODUCTION
JOHN FAST – BLM
BECKIE HILL - BOONE ARCHAEOLOGICAL SERVICES
WTC SURVEYS

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or RKI Exploration and Production, LLC 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 28th day of May 2015.

Signed:

Printed Name: Barry Hymt

Position: Agent for RKL/Exploration & Production, LLC. Address: 1403 Springs Farm Place, Carlsbad, NM 88220

Telephone: (575) 361-4078

E-mail: specialtpermitting@gmail.com

ARTESIA DISTRICT

DEC 0 2 2016

PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	RKI Exploration & Production, LLC.
LEASE NO.:	NMNM-67980
WELL NAME & NO.:	Santa Fe Federal 35-14H
SURFACE HOLE FOOTAGE:	0440' FNL & 0660' FEL
BOTTOM HOLE FOOTAGE	0330' FSL & 0925' FEL
LOCATION:	Section 35, T. 22 S., R 28 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
Cave/Karst
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
□ Drilling
Cement Requirements
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
◯ Production (Post Drilling)
Well Structures & Facilities
Pipelines
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)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

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

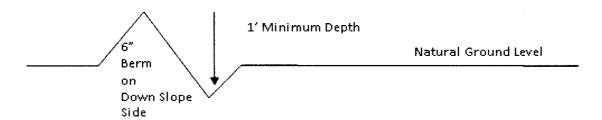
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' 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
- 3. Redistribute topsoil
- 4. Revegetate slopes 2. Construct road

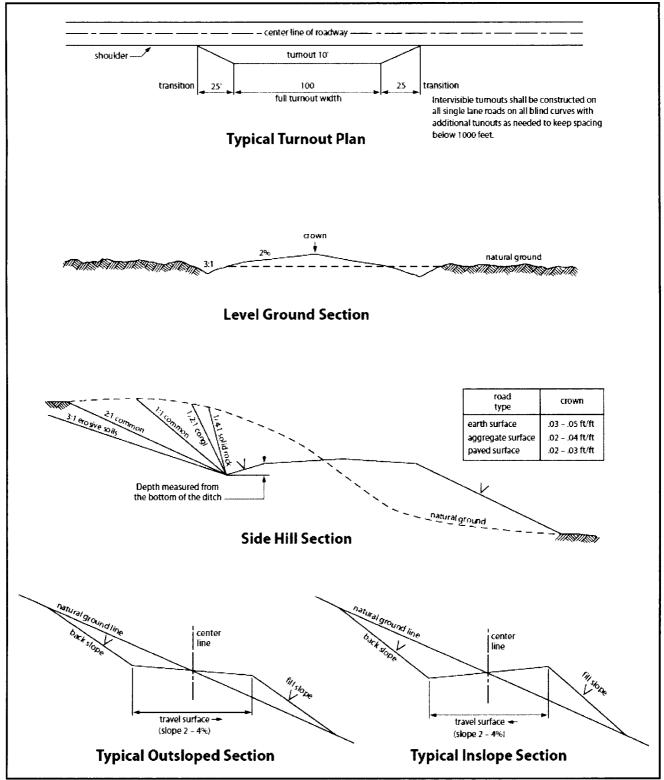


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. 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 or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

Medium Cave/Karst
Possibility of water flows in the Salado and Castile
Possibility of lost circulation in the Rustler, Castile, Capitan Reef, and Delaware

- 1. The 13-3/8 inch surface casing shall be set at approximately 375 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

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. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

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

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

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

 \(\sum \) Cement should tie-back at least 200 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 53.
- 2. Operator has proposed a multi-bowl wellhead assembly that has a weld on head with no o-ring seals. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead manufacturer is supplying the test plug/retrieval tool for the operator's third party tester to use during the BOP/BOPE test.

 Operator shall use the supplied test plug/retrieval tool.
 - b. Operator shall install the wear bushing required by the wellhead manufacturer. This wear bushing shall be installed by using the test plug/retrieval tool.
 - c. Wellhead manufacturer representative shall be on location when the intermediate casing mandrel is landed. Operator shall submit copy of manufacturer's wellsite report with subsequent report.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.

e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 3. 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. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two 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.

JAM 110916

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

BURIED PIPELINE STIPULATIONS

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

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

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

- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

- 18. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

IX. INTERIM RECLAMATION

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

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

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

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

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

X. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture 2, for Sandy 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 <u>no</u> 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:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

NMOCD CONDITION OF APPROVAL

The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the Initial 60-day completion period.