Form 3160-5 (August 2007)

**UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** 

**OCD Artesia** 

TYPE OF ACTION

FORM APPROV	VED
OMB NO. 1004-	0135
Everinge, Int. 21	2017

OMB NO. 1004-013	į
Expires: July 31, 201	l
Lease Serial No.	

SUNDRY NOTICES AND REPORTS ON WELLS	
SUNDAT NUTICES AND REPORTS ON WELLS	
Do not use this form for meanagele to drill are to recently on	
Do not use this form for proposals to drill or to re-enter an	

SUNDRY NOTICES AN Do not use this form for pro abandoned well. Use form 3	NMNM91078  6. If Indian, Allottee or Tribe Name	
SUBMIT IN TRIPLICATE - Oth	er instructions on reverse side.	7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well  ☐ Gas Well ☐ Other		8. Well Name and No. LONGVIEW DEEP FEDERAL 1 21
2. Name of Operator RKI EXPLORATION & PRODUCTIONE-Mail:	Contact: CHARLES K AHN cahn@rkixp.com	9. API Well No. 30-015-40651
3a. Address 210 PARK AVENUE, SUITE 900 OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-996-5771 Fx: 405-949-2223	10. Field and Pool, or Exploratory CULEBRA BLUFF-B.S.,SOUTH
4. Location of Well (Footage, Sec., T., R., M., or Survey	Description)	11. County or Parish, and State
Sec 1 T23S R28E NWNW 1215FNL 1260FW	/L	EDDY COUNTY, NM
12. CHECK APPROPRIATE BO	X(ES) TO INDICATE NATURE OF NOTION	CE, REPORT, OR OTHER DATA

□ Deepen ☐ Acidize ☐ Production (Start/Resume) ■ Water Shut-Off Notice of Intent ■ Alter Casing ☐ Fracture Treat ■ Well Integrity ☐ Reclamation ■ Subsequent Report ■ New Construction ■ Casing Repair Other Recomplete **Drilling Operations** ☐ Final Abandonment Notice □ Change Plans □ Plug and Abandon ☐ Temporarily Abandon Convert to Injection ☐ Plug Back Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

RKI Exploration & Production, LLC requests permission to convert the subject well into a horizontal well as shown on the attached plat (C-102). Consequently, the subject well's name will need to change from Longview Deep Federal 1-21 to Longview Federal 1-21H  $\mathcal{L}$ 400 99  $\mathcal{L}$ 

Please refer to the attached drilling plan and horizontal plans for specific details pertaining to the proposed changes.

TYPE OF SUBMISSION

AUG 26 2013

NMOCD ARTESIA

SFF ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct

Conditions of approval, if any, are attached. Approval of this notice does not warrant or

Electronic Submission #215048 verified by the BLM Well Information System For RKI EXPLORATION & PRODUCTION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 08/07/2013 ()

CHARLES K AHN Name(Printed/Typed) Title EH&S/REGULATORY MANA (Electronic Submission) Date 07/26/2013 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE AUG Approved By

certify that the applicant holds legal or equitable title to those rights in the sub which would entitle the applicant to conduct operations there has a conduct operation. 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.

DISTRICT I
1623 N. French Dr., Hobbs, NM 88240
Phone: (573) 393-616 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Arassia, NM 88210
Phone: (573) 748-1287 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Arassia, NM 87410
Phone: (593) 334-6178 Fax: (595) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Sams Fe, NM 87505
Phone: (593) 476-3460 Fax: (595) 478-3462

# 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

hone: (505) 476-3460 Fax: (505) 4	76-3462									
		WE:	LL LOCA	TION A	ND ACR	EAGE DEDICA	TION PLAT			
Ā	PI Number			Pool Code			Pool Name			
30-015-4	10651			15011		CULEBRA E	BLUFF; BONE S	PRING SOUTH	1	
Property C	ode		1	Property Name					ımber	
3868	4			LO	NGVIEW F	EDERAL 1		21H		
OGRID N	lo.			,	Operator	Name		Elevat	tion	
24628	9			RKI EXPI	ORATION	& PRODUCTION		3057	.37'	
					Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West line	County	
4	1	23 S	28 E		1215	NORTH	1260	WEST	EDDY	
			Bott	om Hole l	Location If	Different From Surfa	ice			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Feet from the	East/West line	County	
D	12	23 S	28 E		1090	NORTH	330	WEST	EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Coo	ie Orde	r No.	1			<del></del>	
199.51	ļ									
			completion u	ıntil all inte	erests have b	een consolidated or a n	on-standard unit ha	is been approved b	y the	
ivision.	NAD 83 NV N(Y)=48826 W(X)=62907	9.4								
ONGVIEW FEDERA	AL P	wiiiii	1		Ţ	NAD 83 NEc1	OPERAT	OR CERTIFICA	ATION	
-21H SHL IMSP-E (NAD 83) ' = 487066 5' N		-903' 215' 2	 		 	N(Y)=488299.7 W(X)=634415.7	I hereby certify herein is true as	that the information id complete to the be	contained	

N(Y)=488 W(X)=629			
W(X)=625 LONGVIEW FEDERAL 1-21H SHL NMSP-E (NAD 83) Y = 487066.5' N X = 630331.4' E 330' N LAT.= 32° 20' 19.28" W LONG.= -104° 02' 42.65" NMSP-E (NAD 27) Y = 487006.8' N X = 589148.9' E N LAT.= 32.3385673° W LONG.= -104.0446863° POINT OF PENETRATION NMSP-E (NAD 83) Y = 487369.5' N X = 629402.3' E	- 903'	NAD 83 NEc1 N(Y)=488299.7 W(X)=634415.7	OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature  Date
X = 629402.3' E N LAT. = 32" 20' 22.30" W LONG. = -104" 02' 53.47" NMSP-E (NAD 27) Y = 487309.8' N X = 588219.8' E N LAT. = 32.3394071" W LONG. = -104.0476919"  LAST TAKE NMSP-E (NAD 83) Y = 481939.7' N X = 629381.5' E N LAT. = 32" 19' 28.57" 330' W LONG. = -104" 02' 53.88" NMSP-E (NAD 27)	NAD 83 SWc1 N(Y)=482924.8 W(X)=629059.3 W(X)=629059.3 UTI BHL UTILITION	NAD 83 SEc1 N(Y)=483007.7 W(X)=634422.4	Charles K. Ahn Print Name  cahn@rkixp.com  E-mail Address  SURVEYORS CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  March 19, 2012  Date of Survey
Y = 481880.1' N X = 588198.9' E N LAT.= 32.3244814° W LONG.= -104.0478064° LONGVIEW FEDERAL 1-21H BHL NMSP-E (NAD 83) Y = 481839.6' N X = 629380.7' E N LAT.= 32° 19' 27.58" W LONG.= -104° 02' 53.90" NMSP-E (NAD 27) Y = 481780.0' N X = 588198.1' E N LAT.= 32.3242064° W LONG.= -104.0478099°		NAD 83 E/4c12 N(Y)=480342.8 W(X)=634415.1	Job No.: WTC48404  JAMES E. TOMPKINS 14729  Certificate Number

Well

Longview Federal 1-21H

Location

Surface:

Bottom Hole:

1,215 FNL 1,090' FNL

1,260 FWL

330 FWL

Section 1-23S-28E Section 12-23S-28E

Eddy County State New Mexico

1) The elevation of the unprepared ground is

3,057 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

13,994 feet and run casing and cement.

This equipment will then be rigged down and the well will be completed with a workover rig.

4) Proposed depth is

13,994 feet MD

5) Estimated tops:

Latiniated topa.		
	TVD	MD
Rustler	203	203
Salado	245	245
Top of Salt	512	512
Base of Salt	2,555	2,555
Lamar Lime	2,735	2,735
Base of Lime	2,775	2,775
Delaware Top	2,820	2,820
Bell Canyon Sand	2,820	2,820
Cherry Canyon Sand	3,830	3,830
KOP	4,000	4,000
Brushy Canyon Sand	4,795	4,815
Bone Spring	6,355	6,402
Bone Spring 1st Sand	7,465	7,555
Bone Spring 2nd Sand	8,230	8,352
Landing Point	8,386	8,796
TD	8,336	13,994

1,221	psi
1,241	psi
1,241	psi
1,685	psi
1,760	psi
2,110	psi
2,796	psi
3,285	psì
3,621	psi
3,690	psi

3,668 psi

BHP = .44 psi/ft x depth 1,203 psi

6) Casing program:

Hole Size	Тор	Bottom	OD Csg	Wt/Grade	Connection	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"	0	235	13 3/8"	54.5#/J-55	ST&C	10.93	52.80	40.13
12 1/4"	0	4,000	9 5/8"	40#/J-55	LT&C	1.15	4.49	3.25
8 3/4"	0	8,796	7"	26#/P-110	LT&C	1.60	1.99	3.48
6 1/8"	7,890	13,994	4 1/2"	11.6#/HCP-110	Buttress	1.40	2.14	11.26
Collapse	1.125							
Burst	1.0							
Tension	2.0							

#### 7) Cement program:

Surface	17 1/2" hole
Pipe OD	13 3/8"
Setting Depth	235 ft
Annular Volume	0.69462 cf/ft

Excess 1 100 %

0 sx 1.75 cf/sk Lead 13.5 ppg 250 sx 1.34 cf/sk 14.8 ppg Lead: "C" + 4% PF20 (gel) + 2% PF1 (CC) + .125 pps PF29 (CelloFlake) + .2% PF46 (antifoam)

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

Top of cement:

Surface

12 1/4" hole Intermediate Pipe OD 9 5/8" Setting Depth 4,000 ft Annular Volume 0.31318 cf/ft

0.3627 cf/ft Excess 0.5 50 %

Lead 849 sx 1.92 cf/sk 12.9 ppg 200 sx 1.33 cf/sk 14.8 ppg

Lead: 35/65 Poz "C" + 5% PF44 (salt) + 6% PF20 (gel) + 3 pps PF42 (KoalSeal) +

.125 pps PF29 (CelloFlake) + .2% PF46 (antifoam) +1% PF1 (CC)
Tail: "C" + .2% PF13 (retarder)
Top of cement: Sur

Surface

Intermediate

8 3/4" hole

Pine OD

7"

Setting Depth

8,796 ft

Annular Volume

0.15033 cf/ft

0.1585 cf/ft 35 %

300 ft

Excess DV Tool Depth

0.35 5500 ft

Stage 1

Lead: 452 sx 1.48 cf/sk

13.0 ppg

Lead: PVL + 2% PF174 (expanding agent) + .3% PF167 (Uniflac) + .1% PF65 (dispersant) +

.2% PF13 (retarder) + .25 pps PF46 (antifoam)

Top of cement:

DV tool

Stage 2

Lead: Tail:

117 sx 100 SY 1.89 cf/sk 1.48 cf/sk

12.9 ppg 13.0 ppg

Lead: 35/65 Poz "C" + 5% PF44 (salt) + 6% PF20 (gel) + .125 pps PF29 (CelloFlake) +

.2% PF13 (retarder) + .25 pps PF46 (antifoam)

Tail: PVL + 1.3% PF44 (salt) + 5% PF174 (expander) + 5% FP606 (gel suppressing agent) +

.25 pps PF46 (antifoam) + .2% PF13 (retarder)

Top of cement:

500' treback for Secretary Potents

Liner

Pipe OD Setting Depth 6 1/8" hole 4 1/2"

13,994 ft

Baker Frac Point System

#### 8) Pressure control equipment:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (3,000 psi WP) preventer, a bag-type annular preventer (3,000 psi WP), and 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 casing head will be installed on the 13 3/8" casing and utilized until total depth is reached. All BOP and associated equipment will be tested to 3,000 psi and the annular will be tested to 1,500 psi after setting each casing string. The 13 3/8" and 9 5/8" casing will be tested to .22 psi per ft of casing string length or 1,500 psi whichever is greater, but not to exceed 70% of the minimum yield.

Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole.

These function test will be documented on the daily driller's log.

A driffing spool or blowout preventer with 2 side outlets (choke side shall be 3" minimum diameter, kill side shall be at least 2" diameter).

2 kill line valves, one of which will be a check valve.

2 chokes on the manifold along with a pressure gauge.

Upper kelly cock valve with handle available.

Safety valve and subs to fit all drill string connections in use.

All BOP equipment connections subjected to pressure will be flanged, welded, or clamped.

Fill up line above the upper most preventer.

#### 9) Mud program:

Тор	В	ottom	Mud Wt.	Vis	PV	ΥP	Fluid Loss	Type System
	0	235	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Water
	235	4,000	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine
	4,000	13,994	8.9 to 9.1	28 to 36	1 - 3	1 - 3	NC	Fresh Water

#### 10) Logging, coring, and testing program:

No drill stem test are planned

KOP to intermediate: CNL, Caliper, GR, DLL,

Intermediate to surface: CNL, GR

No coring is planned

#### 11) Potential hazards:

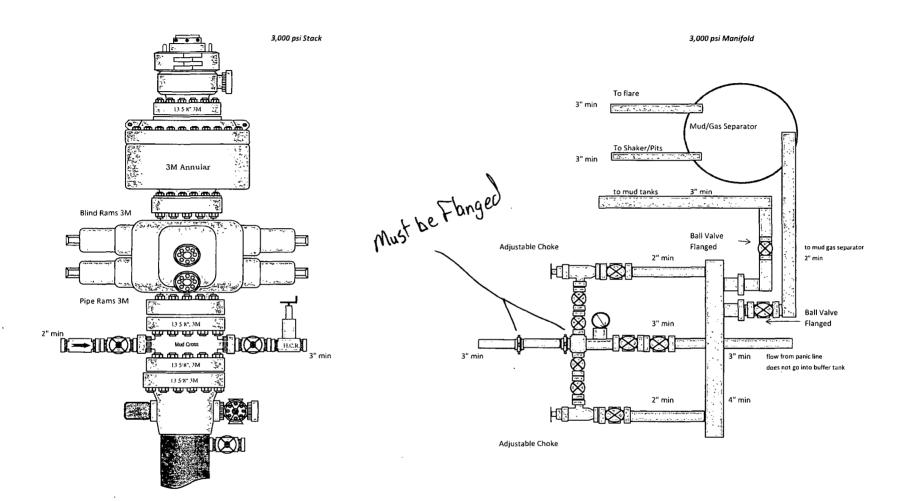
No abnormal pressure or temperature is expected. No H2S is known to exist in the area. Lost circulation can occur in, lost circulation will be on location and readily available if needed.

12) Anticipated start date

ASAP

Duration

25 days



# **RKI Exploration & Production**

Eddy County (NM83E) Sec 1-T23S-R28E Longview Deep Fed 1-21H

Wellbore #1

Plan: 07-25-13

# **Standard Planning Report**

25 July, 2013

#### The Company Azimuths to Grid North **RKI Exploration & Production** SHL True North: -0.15° 1200 Section Line 1215' FNL / 1260' FWL Wolverine Magnetic North: 7.40 d Project: Eddy County (NM83E) Site: Sec 1-T23S-R28E Magnetic Field KOP - Drop 10/100 Directiona: Strength: 48448.0snT Well: Longview Deep Fed 1-21H Wellbore: Wellbore #1 Begin Hold: Dip Angle: 60.16° Date: 2013/07/25 Design: 07-25-13 LV Fed 1-21H POF Model: IGRF2010 Build 3/100 EOC - Hold to TD: WELL DETAILS: Longview Deep Fed 1-21H Ground Level: 0.0 Easting Latittude Longitude 630331.40 32°20' 19.278 N 104°2' 42.653 W +N/-S+E/-W Northing 0.0 0.0 487066.50 SHL: 1215' FNL / 1260' FWL of Sec 1 BHL: 1090' FNL / 330' FWL of Sec 12 SECTION DETAILS +N/-S +E/-W DLeg TFace VSec Sec TVD 0.00 0.00 0.0 0.00 0.00 0.0 0.0 4000.0 0.00 0.00 4000.0 0.0 0.00 0.00 0.0 4400.0 12.00 315.00 4397.1 29.5 -29.5 3.00315.00 -23.8 7770.6 12.00 315.00 7694.0 525.0 -525.0 0.00 0.00 -422.6 7890.6 0.00 0.00 7813.2 533.9 -533.9 10.00 180.00 -429.7 8796.1 90.55 184.14 8386.1 -43.1 -575.7 10.00 184.14 145.4 13993.8 90.55 184.14 8336.0 -5226.9 -950.7 0.00 -42.56 5312.7 LV Fed 1-21H PBHL PROJECT TARGET DETAILS (MAP CO-ORDINATES) Northing 487369.50 Name +N/-S +E/-W Easting Shape LV Fed 1-21H POP 0.0 303.0 -929.1 629402.30 Point 6375 LV Fed 1-21H PBB366.0 -5226.9 -950.7481839.60 629380.70 Point Section Line 6750 **Annotations** Vertical Depth (750 ft/in) LV Fed 1-21H PBHE TVD MD Annotation TD at 13993.8 4000.0 4000.0 Build 3/100 4397.1 4400.0 Begin Hold KOP - Drop 10/100 7770.6 7694.0 KOP - Drop 10/1003 7813.2 7890.6 Build 10/100 8386.1 8796.1 EOC - Hold to TD 7500 1090' FNL / 330' FWL 8336.0 13993.8 TD at 13993.8 Build 10/100 West(-)/East(+) (1200 ft/in) EOC - Hold to TD 8250 TD at 13993.8 LV Fed 1-21H PBHL 8625 Drilling Target 10' Up / 10' Down

2250

1125.

一、美元气.

1500

4500 4875

3750

Vertical Section at 190.31 (750 ft/in)

Planning Report

Database: Company: EDM 2003.21 Single User Db. Local Co-ordinate Reference: Well Longview Deep Fed:1-21H RKI Exploration & Production, TVD Reference: WELL @ 0.0ft (Original Well Elev) Eddy County (NM83E) Project: MD Reference: WELL @ 0.0ft (Original Well Elev). Site: Sec 1-T23S-R28E North Reference: Longview Deep Fed 1-21H Survey Calculation Method: Minimum Curvature Well: Wellbore #1 Design: 07-25-13

System Datum:

Project Eddy County (NM83E)

Map System: Geo Datum:

Site .\*\*

US State Plane 1983

North American Datum 1983

New Mexico Eastern Zone Map Zone:

Sec 1-T23S-R28E

Site Position: From:

**Position Uncertainty:** 

Мар

0.0 ft

Northing: Easting: Slot Radius:

486,470.90n 634,207.60ft

Latitude:

Longitude: Grid Convergence: 32° 20' 13.278 N

104° 1' 57,491 W 0.16

Longview Deep Fed 1-21H Well

**Well Position** 

+N/-S +E/-W

595.6 ft -3,876.2 ft

IGRF2010

Northing: Easting:

487,066.50 ft 630,331.40 ft

7.56

Latitude:

32° 20' 19.278 N

Position Uncertainty

0.0 ft

Wellhead Elevation:

Lonaitude: **Ground Level:** 

Mean Sea Level

104° 2' 42.653 W

0.0 ft

Wellbore #1 Wellbore '

Model Name Magnetics

Sample Date

2013/07/25

Declination

Dip Angle , .... (°)

Field Strength

60.16 48,448

Design 7 07-25-13 **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 +N/-S +E/-W Depth From (TVD) Vertical Section: Direction# (ft) (ft) (ft) , '(°) 0.0 0.0 0.0 190.31

Plan Sections	The second	ار از	and the second s	أوالمتعملين ستنديم	- Sell'anniera primera primera primera. Sell'anniera primera p	مدر فيوناك وسنرا فواوات	4-175 4-175	والمراجعة والمناطقة والمنا		The second of the second
Measured			Vertical			Dogleg	Build #	Turn 3.	10.0	a de la companya de l
(ft)	ncilnation (°)	(°)	Depth (ft)	(ft)	(ft)	(°/100ft)	#≀Rate (°/100ft)	Rate (°/.100ft)	TFO .(°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,400.0	12.00	315.00	4,397.1	29.5	-29.5	3.00	3.00	0.00	315.00	
7,770.6	12.00	315.00	7,694.0	525.0	-525.0	0.00	0.00	0.00	0.00	
7,890.6	0.00	0.00	7,813.2	533.9	-533.9	10.00	-10.00	0.00	180.00	
8,796.1	90.55	184.14	8,386.1	-43.1	-575.7	10.00	10.00	0.00	184.14	
13,993.8	90.55	184.14	8,336.0	-5,226.9	-950.7	0.00	0.00	0.00	-42.56	LV Fed 1-21H PBH

Planning Report

Database: Company Project: Site: Wellbore: EDM 2003.21 Single: User Db RKI Exploration & Production Eddy County (NM83E) Sec 1-T23S-R28E Longview Deep Fed: 1-21H

Wellbore #1 07-25-13. Design:

Local Co-ordinate Reference: ▼IVD Reference: MD Reference: North Reference: Survey/Calculation Method:

Well Longview Deep Fed 1-21H WELL @ 0.0ft (Original Well Elev); WELL @ 0.0ft (Original Well Elev) Grid

Minimum Curvature

Planned Survey	A de la companya della companya della companya de la companya della companya dell		ر قال داد داد داد داد داد داد داد داد داد د	The same of the same					
			Vertical			Vertical	Dogleg	Build	Turn
Measured Depth	Inclination :	\zimuth	Depth	+N/-\$		Section ::	Rate	Rate	Rate
(n)	(6)	(C) (Serve	(ft)	. (ft) 4	(ft)	-(ft)		(°/100ft): 🌬 🤻	((°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
LV Fed 1-21	IH POP	·				1 2 2 2 2 2	- 1 - 2 - X <sup>-1</sup>		
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0 400.0	0.00 0.00	0.00 0.00	300.0 400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
500.0	0.00 0.00	0.00 0.00	500.0 600.0	0.0 0.0	0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
600.0 700.0	, 0.00	0.00	700.0	0.0	0.0 0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0 1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0 1,800.0	0.00 0.00	0.00 0.00	1,700.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
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2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
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3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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4,100.0	3.00	315.00	4,100.0	1.9	-1.9	-1.5	3.00	3.00	0.00
4,200.0	6.00	315.00	4,199.6	7.4	-7. <b>4</b>	-6.0	3.00	3.00	0.00
4,300.0	9.00	315.00	4,298.8	16.6	-16.6	-13.4	3.00	3.00	0.00
4,400.0	12.00	315.00	4,397.1	29.5	-29.5	-23.8	3.00	3.00	0.00
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4,500.0	12.00	315.00	4,494.9	44.2	-44.2	-35.6	0.00	0.00	0.00
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Planning Report

Database: EDM/2003:21 Single User Db.
Company: RKI Exploration/8 Production
Project: Eddy/County/(NM83E)
Site: Sec 1-T23S-R28E
Well: Longview Deep Fed 1-21H
Wellbore: Wellbore #1

Local Co-ordinate Reference: TVD:Reference: MD:Reference: North Reference: Survey Calculation Method:

Well Longview Deep Fed 1-21H WELL @ 0.0ft (Original Well Elev) WELL @ 0:0ff (Original Well Elev)

Minimum Curvature,

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vvelibore. Design:	33.00	
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No.							-414.3			
7,800.0 9.06 315.00 7,722.9 528.8 -528.8 -425.7 10.00 -10.00 0.00   7,850.0 4.06 315.00 7,772.6 532.9 -532.9 -428.9 10.00 -10.00 0.00   7,890.6 0.00 0.00 7,813.2 533.9 -533.9 -429.7 10.00 10.00 0.00   8uila;10/1000		12.00					-422.6			0.00
7,800.0 9.06 315.00 7,722.9 528.8 -528.8 -425.7 10.00 -10.00 0.00  7,850.0 4.06 315.00 7,772.6 532.9 -532.9 -428.9 10.00 -10.00 0.00  7,890.6 0.00 0.00 7,813.2 533.9 -532.9 -428.9 10.00 -10.00 0.00  8006.00 0.00 7,813.2 533.9 -533.9 -429.7 10.00 10.00 0.00  7,950.0 5.94 184.14 7,822.4 530.8 -534.1 426.7 10.00 10.00 0.00  8,000.0 10.94 184.14 7,970.5 511.9 -535.5 -534.6 419.4 10.00 10.00 0.00  8,050.0 15.94 184.14 7,970.5 511.9 -535.5 407.8 10.00 10.00 0.00  8,100.0 20.94 184.14 8,017.9 496.2 -536.6 -392.1 10.00 10.00 0.00  8,150.0 25.94 184.14 8,063.8 476.3 -538.1 -372.4 10.00 10.00 0.00  8,250.0 30.94 184.14 8,107.7 452.6 -539.8 348.7 10.00 10.00 0.00  8,250.0 35.94 184.14 8,149.4 425.1 -541.8 -321.3 10.00 10.00 0.00  8,350.0 40.94 184.14 8,188.6 394.1 -544.0 -290.4 10.00 10.00 0.00  8,350.0 45.94 184.14 8,224.9 359.8 -546.5 -256.2 10.00 10.00 0.00  8,350.0 55.94 184.14 8,224.9 359.8 -546.5 -256.2 10.00 10.00 0.00  8,400.0 50.94 184.14 8,224.9 359.8 -546.5 -256.2 10.00 10.00 0.00  8,400.0 50.94 184.14 8,287.8 282.5 -549.2 -219.1 10.00 10.00 0.00  8,550.0 65.94 184.14 8,287.8 282.5 -552.1 -179.1 10.00 10.00 0.00  8,550.0 65.94 184.14 8,336.3 195.4 -558.4 -92.3 10.00 10.00 0.00  8,550.0 65.94 184.14 8,336.3 195.4 -558.4 -92.3 10.00 10.00 0.00  8,600.0 70.94 184.14 8,336.3 195.4 -568.7 50.2 10.00 10.00 0.00  8,600.0 70.94 184.14 8,336.9 101.3 -565.2 1.5 10.00 10.00 0.00  8,750.0 80.94 184.14 8,336.9 101.3 -565.2 1.5 10.00 10.00 0.00  8,750.0 80.94 184.14 8,336.7 2.9 -572.3 99.6 10.00 10.00 0.00	KOP - Drop 10	/100	The state of the s		8	C 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,A1	ALK BELLEVIEW	9,1	Target State of the State of th
7,850.0         4.06         315.00         7,772.6         532.9         -532.9         -428.9         10.00         -10.00         0.00           7,890.6         0.00         0.00         7,813.2         533.9         -533.9         -429.7         10.00         -10.00         0.00           8006.0         0.94         184.14         7,822.6         533.8         -533.1         -426.7         10.00         10.00         0.00           8,000.0         10.94         184.14         7,822.9         523.5         -534.6         -419.4         10.00         10.00         0.00           8,000.0         15.94         184.14         7,970.5         511.9         -535.5         -407.8         10.00         10.00         0.00           8,100.0         20.94         184.14         8,063.8         476.3         -538.1         -372.4         10.00         10.00         0.00           8,100.0         20.94         184.14         8,063.8         476.3         -538.1         -372.4         10.00         10.00         0.00           8,200.0         30.94         184.14         8,107.7         452.6         -539.8         -348.7         10.00         10.00         0.00		9.06	315.00			-528.8				A TANKE OF VERNING AND ADDRESS OF THE PARTY.
7,890,6         0.00         0.00         7,813,2         533.9         -533.9         -429.7         10.00         -10.00         0.00           Build,10/1000*         1         1         7,822.6         533.8         -533.9         -429.7         10.00         10.00         0.00           7,950.0         5.94         184.14         7,872.4         530.8         -534.1         -426.7         10.00         10.00         0.00           8,000.0         10.94         184.14         7,970.5         511.9         -535.5         -534.6         -419.4         10.00         10.00         0.00           8,050.0         15.94         184.14         7,970.5         511.9         -535.5         -407.8         10.00         10.00         0.00           8,100.0         20.94         184.14         8,017.9         496.2         -536.6         -392.1         10.00         10.00         0.00           8,200.0         30.94         184.14         8,107.7         452.6         -539.8         -348.7         10.00         10.00         0.00           8,250.0         35.94         184.14         8,149.4         425.1         -541.8         -321.3         10.00         10.00         0.00<	7,050.0	4.00	245.00	7 770 0	C22.0		400.0	40.00	40.00	0.00
7,900.0 0.94 184.14 7,822.6 533.8 -533.9 -429.7 10.00 10.00 0.00 7,950.0 5.94 184.14 7,872.4 530.8 -534.1 -426.7 10.00 10.00 0.00 8,000.0 10.94 184.14 7,972.9 523.5 -534.6 -419.4 10.00 10.00 0.00 8,000.0 15.94 184.14 7,970.5 511.9 -535.5 -407.8 10.00 10.00 0.00 8,100.0 20.94 184.14 8,017.9 496.2 -536.6 -392.1 10.00 10.00 0.00 8,150.0 25.94 184.14 8,063.8 476.3 -538.1 -372.4 10.00 10.00 0.00 8,200.0 30.94 184.14 8,107.7 452.6 -539.8 -348.7 10.00 10.00 0.00 8,250.0 35.94 184.14 8,149.4 425.1 -541.8 -321.3 10.00 10.00 0.00 8,350.0 45.94 184.14 8,188.6 394.1 -544.0 -290.4 10.00 10.00 0.00 8,350.0 45.94 184.14 8,224.9 359.8 -546.5 -256.2 10.00 10.00 0.00 8,450.0 50.94 184.14 8,224.9 359.8 -546.5 -256.2 10.00 10.00 0.00 8,450.0 55.94 184.14 8,287.8 282.5 -552.1 -179.1 10.00 10.00 0.00 8,550.0 60.94 184.14 8,314.0 240.0 -555.2 -136.8 10.00 10.00 0.00 8,550.0 60.94 184.14 8,336.3 195.4 -568.4 -92.3 10.00 10.00 0.00 8,550.0 60.94 184.14 8,336.3 195.4 -568.4 -92.3 10.00 10.00 0.00 8,550.0 65.94 184.14 8,354.7 149.1 -561.8 -46.1 10.00 10.00 0.00 8,650.0 70.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,368.9 101.3 -565.2 1.5 10.00 10.00 0.00 8,700.0 80.94 184.14 8,384.7 2.9 -572.3 99.6 10.00 10.00 10.00 0.00 8,700.0 80.94 184.14 8,384.7 2.9 -572.3 99.6 10.00 10.00 10.00 0.00							-428.9			
7,900.0       0.94       184.14       7,822.6       533.8       -533.9       -429.7       10.00       10.00       0.00         7,950.0       5.94       184.14       7,872.4       530.8       -534.1       -426.7       10.00       10.00       0.00         8,000.0       10.94       184.14       7,970.5       511.9       -535.5       -407.8       10.00       10.00       0.00         8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,250.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,400.0       50.94       184.14       8,287.8       282.5       -546.5       -256.										
7,900.0       0.94       184.14       7,822.6       533.8       -533.9       -429.7       10.00       10.00       0.00         7,950.0       5.94       184.14       7,872.4       530.8       -534.1       -426.7       10.00       10.00       0.00         8,000.0       10.94       184.14       7,970.5       511.9       -535.5       -407.8       10.00       10.00       0.00         8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,400.0       50.94       184.14       8,287.8       282.5       -546.5       -256.	****Build:10/100	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1.000 al of 01	المتنف يستعد المتناث	" Line State La		Alana Parka Ala		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1480 Ex 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8,000.0       10.94       184.14       7,921.9       523.5       -534.6       -419.4       10.00       10.00       0.00         8,050.0       15.94       184.14       7,970.5       511.9       -535.5       -407.8       10.00       10.00       0.00         8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,400.0       50.94       184.14       8,249.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -17										
8,050.0       15.94       184.14       7,970.5       511.9       -535.5       -407.8       10.00       10.00       0.00         8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,350.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,400.0       50.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -549.2       -219.1       10.00       10.00       0.00         8,500.0       66.94       184.14       8,287.8       282.5       -552.1       -17										
8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,24.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,500.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.	8,000.0	10.9 <b>4</b>	184.14	7,921.9	523.5	-534.6	-419.4	10.00	10.00	0.00
8,100.0       20.94       184.14       8,017.9       496.2       -536.6       -392.1       10.00       10.00       0.00         8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,24.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,500.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.	8 050 0	15 94	184 14	7 970 5	511.9	-535.5	-407.8	10.00	10.00	0.00
8,150.0       25.94       184.14       8,063.8       476.3       -538.1       -372.4       10.00       10.00       0.00         8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,24.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5 </td <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				•						
8,200.0       30.94       184.14       8,107.7       452.6       -539.8       -348.7       10.00       10.00       0.00         8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,287.8       282.5       -549.2       -219.1       10.00       10.00       0.00         8,500.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,336.3       195.4       -555.2       -136.8       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5<										
8,250.0       35.94       184.14       8,149.4       425.1       -541.8       -321.3       10.00       10.00       0.00         8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5 </td <td></td>										
8,300.0       40.94       184.14       8,188.6       394.1       -544.0       -290.4       10.00       10.00       0.00         8,350.0       45.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,750.0       80.94       184.14       8,384.7       2.9       -572.3       99.6										
8,350.0       45.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6						-54 1.0				0.00
8,350.0       45.94       184.14       8,224.9       359.8       -546.5       -256.2       10.00       10.00       0.00         8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6	8,300.0	40.94	184.14	8,188.6	394.1	-544.0	-290.4	10.00	10.00	0.00
8,400.0       50.94       184.14       8,258.0       322.5       -549.2       -219.1       10.00       10.00       0.00         8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00	8,350.0	45.94	184.14	8,224.9	359.8	-546.5				
8,450.0       55.94       184.14       8,287.8       282.5       -552.1       -179.1       10.00       10.00       0.00         8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00										
8,500.0       60.94       184.14       8,314.0       240.0       -555.2       -136.8       10.00       10.00       0.00         8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00										
8,550.0       65.94       184.14       8,336.3       195.4       -558.4       -92.3       10.00       10.00       0.00         8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00										
8,600.0       70.94       184.14       8,354.7       149.1       -561.8       -46.1       10.00       10.00       0.00         8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00										
8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00				•						
8,650.0       75.94       184.14       8,368.9       101.3       -565.2       1.5       10.00       10.00       0.00         8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00			184.14							0.00
8,700.0       80.94       184.14       8,379.0       52.4       -568.7       50.2       10.00       10.00       0.00         8,750.0       85.94       184.14       8,384.7       2.9       -572.3       99.6       10.00       10.00       0.00	8,650.0	75.94	184.14	8,368.9	101.3			10.00	10.00	0.00
8,750.0 85.94 184.14 8,384.7 2.9 -572.3 99.6 10.00 10.00 0.00										
8,796.1 90.55 184.14 8,386.1 -43.1 -575.7 145.4 10.00 10.00 0.00	1									
	8,796.1	90.55	184.14	8,386.1	-43.1	-575.7	145.4	10.00	10.00	0.00

Planning Report

EDM 2003:21 Single User Db RKI Exploration & Production Database: Company: Project:
Site:
Well:
Wellbore: Eddý County (NM83E)) Sec 1-123S R28E Longview Deep Fed 4-21H

Wellbore #1

Local Co-ordinate Reference: Eocal Co-ordinate Reference:
TVD Reference:
IMD/Reference:
North Reference:
Survey/Calculation/Method:

Well Longview Deep Fed 1-21H WELL @ 0:0ft (Original Well Elev) WELL @ 0:0ft (Original Well Elev)

Grid

:Minimum Curvature

Design: 07-25	13				the way			Giordan III. rokating	
Planned Survey	GARLES AND A	annibusi terang	Branch Canada		Anton all areas and a second	H. D. H. CHARLES COMPANY	. Fra 19 50 - 1913		
Measured			rtical		V		jleg Bu		
Depth Inclina	ition Azim		epth"		[/:₩ "	ection (* Ra (ft) * (*/10	ate⊸ ∦, Ra 00ft) ∛(%/10	te: \Ra  0ft)	
San	16 July 10 10 10 10 10 10 10 10 10 10 10 10 10	1 2 3 May 3 May 17 18 19			A CONTRACT	TO PAGE 1		3.7	· 10人生。10人年3月
EOC - Hold to TD		04.44	0.200.0	46.0	675.0	440.0		0.00	
			8,386.0 8,385.1	-46.9 -146.7	-575.9 -583.2	149.2 248.7	0.00 0.00	0.00 0.00	0.00 0.00
			8,384.1	-246.4	-590.4	348.1	0.00	0.00	0.00
9,100.0	90.55 1	84.14	8,383.2	-346.1	-597.6	447.5	0.00	0.00	0.00
			8,382.2	-445.9	-604.8	546.9	0.00	0.00	0.00
			8,381.2	-545.6	-612.0	646.3	0.00	0.00	0.00
			8,380.3 8,379.3	-645.3 -745.1	-619.3 -626.5	745.7 845.2	0.00 0.00	0.00 0.00	0.00 0.00
			8,378.4	-844.8	-633.7	944.6	0.00	0.00	0.00
		84.14	8,377.4	-944.6	-640.9	1,044.0	0.00	0.00	0.00
9,800.0	90.55 1	84.14		-1,044.3	-648.1	1,143.4	0.00	0.00	0.00
9,900.0				-1,144.0	-655.3	1,242.8	0.00	0.00	0.00
				-1,243.8	-662.6	1,342.2	0.00	0.00	0.00
· ·	•			-1,343.5	-669.8	1,441.7	0.00	0.00	0.00
				-1,443.2	-677.0	1,541.1	0.00	0.00	0.00
				-1,543.0	-684.2	1,640.5	0.00	0.00	0.00
				-1,642.7 -1,742.4	-691.4 -698.6	1,739.9 1,839.3	0.00 0.00	0.00 0.00	0.00 0.00
				-1,742.4 -1,842.2	-705.9	1,938.7	0.00	0.00	0.00
				-1.941.9	-713.1	2,038.2	0.00	0.00	0.00
				-2,041.6	-720.3	2,137.6	0.00	0.00	0.00
				-2,141.4	-727.5	2,237.0	0.00	0.00	0.00
				-2,241.1	-734.7	2,336.4	0.00	0.00	0.00
11,100.0	90.55 1	84.14	8,363.9	-2,340.8	-741.9	2,435.8	0.00	0.00	0.00
				-2,440.6	-749.2	2,535.2	0.00	0.00	0.00
				-2,540.3	-756.4	2,634.7	0.00	0.00	0.00
				-2,640.0	-763.6	2,734.1	0.00	0.00	0.00
				-2,739.8 -2,839.5	-770.8 -778.0	2,833.5 2,932.9	0.00 0.00	0.00 0.00	0.00 0.00
i									
				-2,939.2 -3,039.0	-785.2 -792.5	3,032.3 3,131.7	0.00 0.00	0.00 0.00	0.00 0.00
				-3,03 <del>9</del> .0 -3,138.7	-792.5 -799.7	3,131.7 3,231.1	0.00	0.00	0.00
				-3,238.4	-806.9	3,330.6	0.00	0.00	0.00
				-3,338.2	-814.1	3,430.0	0.00	0.00	0.00
12,200.0	90.55 1	84.14	8,353.3	-3,437.9	-821.3	3,529.4	0.00	0.00	0.00
				-3,537.7	-828.5	3,628.8	0.00	0.00	0.00
				-3,637.4	-835.7	3,728.2	0.00	0.00	0.00
				-3,737.1	-843.0	3,827.6	0.00	0.00	0.00
'				-3,836.9	-850.2	3,927.1	0.00	0.00	0.00
				-3,936.6 -4,036.3	-857.4	4,026.5	0.00	0.00	0.00
				-4,036.3 -4,136.1	-864.6 -871.8	4,125.9 4,225.3	0.00 0.00	0.00 0.00	0.00 0.00
				-4,130.1 -4,235.8	-879.0	4,324.7	0.00	0.00	0.00
				-4,335.5	-886.2	4,424.1	0.00	0.00	0.00
				-4,435.3	-893.5	4,523.6	0.00	0.00	0.00
				-4,535.0	-900.7	4,623.0	0.00	0.00	0.00
13,400.0	90.55 18	84.14	8,341.7	-4,634.7	-907.9	4,722.4	0.00	0.00	0.00
				-4,734.5	-915.1	4,821.8	0.00	0.00	0.00
13,600.0	90.55 18			-4,834.2	-922.3	4,921.2	0.00	0.00	0.00
				-4,933.9	-929.5	5,020.6	0.00	0.00	0.00
				-5,033.7	-936.7	5,120.0	0.00	0.00	0.00
1				-5,133.4 -5,226.9	-943.9	5,219.5	0.00	0.00	0.00
13,993.8	0.55 1	84.14 (	5,550.0	-5,220.3	-950.7	5,312.7	0.00	0.00	0.00

Planning Report

Database: Company: EDM 2003:21 Single User Db RKI Exploration & Production Eddy County (NM83E)) Project: Sec 1-T23S-R28E Site: Well.

Longview Deep Fed 1-21H

Wallbore: Wellbore #1 07-25-13 Design:

Local Co-ordinate Reference:

TVD Reference: MD/Reference:

North Reference: Survey Calculation Method:

Well Longview Deep Fed 1-21H WELL @ 0.0ft (Original Well Elev) WELL @ 0.0ft (Original/Well/Elev)

Minimum Curvature

Planned Survey

	Measured.		Vertica		Vertical	Doğleg	Bulld Turn
٠.	Depth	Inclination Azimu		، +N/-Sود.	+E/-W Section	Rate	Rate Rate
· · · ·	(ft)	(*)	(ft)-	(ft)	(ft) (ft)	(°/100ft) 🦂 (	(°/100ft) (°/100ft)

70, 3

TD-at 13993.8 - LV Fed:1-21H-PBHL

Targets Target Name Shit/miss target D Shape	IP Angle Di	p D r.* (°)	TVD	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LV Fed 1-21H POP - plan misses by 977 - Point	0.00 '.3ft at 0.0ft M	0.00 D (0.0 T	0.0 TVD, 0.0 N,	303.0 0.0 E)	-929.1	487,369.50	629,402.30	32° 20' 22.301 N	104° 2' 53.474 W
LV Fed 1-21H PBHL - plan hits target - Point	0.00	0.00	8,336.0	-5,226.9	-950.7	481,839.60	629,380.70	32° 19' 27.579 N	104° 2′ 53.897 W

Plan Annotations			A COLUMN TO SERVICE AND A COLU	and the second s
Measured	Vertical	Local Coord	linates <sub>"</sub>	
Depth (ft)	Depth (ft)	, +N/-S (ft)	+E/-W (ft)	Comment
4,000.0	0 4,000.0	0.0	0.0	Build 3/100
4,400.0	0 4,397.1	29.5	-29.5	Begin Hold
7,770.6	7,694.0	525.0	-525.0	KOP - Drop 10/100
7,890.6	7,813.2	533.9	-533.9	Build 10/100
8,796.	1 8,386.1	-43.1	-575.7	EOC - Hold to TD
13,993.8	8,336.0	-5,226.9	-950.7	TD at 13993.8

### CONDITIONS OF APPROVAL

OPERATOR'S NAME: | RKI EXPLORATION

LEASE NO.: NMNM-91078

WELL NAME & NO.: | LONGVIEW FEDERAL 1-21H

SURFACE HOL FOOTAGE: 1215 FNL & 1260 FWL BOTTOM HOLE FOOTAGE 1090 FNL & 0330 FWL

LOCATION: Section 1, T. 23 S., R. 28 E., NMPM

**COUNTY:** | **Eddy County, New Mexico** 

## The original COAs still stand with the following drilling modifications:

#### I. DRILLING

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours 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. Due to recent H2S encounters in the salt formation, it is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide prior to drilling out the surface shoe. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 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.

- 3. 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.
- 4. 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. 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.

Secretary's Potash
Medium Cave/Karst
Possible lost circulation in the Delaware Formation.
High pressures are possible in the Wolfcamp formation and the Pennsylvanian section.

- 1. The 13-3/8 inch surface casing shall be set at approximately 235 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is penetrated, set casing shoe 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 9-5/8 inch intermediate casing is:
- 3. The minimum required fill of cement behind the 7 inch production casing is:

Operator has proposed DV tool at depth of 5500'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool, cement shall:
- 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 shall:
- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Additional cement may be required excess calculates to 21%.

- 4. Cement not required on the 4-1/2" casing. Packer system being used.
- 5. 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 3000 (3M) psi.
  - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
  - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - 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.

JAM 082013