Form 3160-5 (August 2007)	DE	UNITED STATE PARTMENT OF THE I UREAU OF LAND MANA NOTICES AND REPO is form for proposals to II. Use form 3160-3 (AP	S NTERIOR	DCD Ar	esia ERV	TION FORM OMB N Expires	APPROVE 10. 1004-01: 2 July 31, 20	35
	SUNDRY	NOTICES AND REPO	IGEMENT IRTS ON WI	ELLS ARTE	ESIA DISTRIC	5. Lease Serial No. 7 NMLC067849	<u> </u>	
	Do not use thi abandoned wel	's form for proposals to II. Use form 3160-3 (AP	drill or to re D) for such p	-enter an proposals. Jf	AN 23 20	6. If Indian, Allottee	or Tribe Nar	ne
<u> </u>		PLICATE - Other instruc			RECEIVE	-7. If Unit or CA/Agre	eement, Narr	ne and/or No.
1. Type of Well	Gas Well Oth		<u> </u>	<u> </u>	<u> </u>	8. Well Name and No EAGLE 34 K FEI		308957
2. Name of Opera LIME ROCK		Contact: A, L.P. E-Mail: MIKE@PI	MIKE PIPPI PPINLLC.COM		<u> </u>	9. API Well No. 30-015-43886		
	211 211 211 211 211 211 211 211 211 211	JLLIVAN	3b. Phone No Ph: 505-32	o. (include area code 27-4573	2)	10. Field and Pool, or RED LAKE, GL		
		., R., M., or Survey Description	1)	<u> </u>		11. County or Parish,	, and State	<u></u>
Sec 34 T17	S R27E NESW 24	05FNL 2440FWL				EDDY COUNT	Y, NM	
1	2. CHECK APPR	ROPRIATE BOX(ES) T	O INDICATI	NATURE OF	NOTICE, R	LEPORT, OR OTHE	ER DATA	
TYPE OF S	UBMISSION		· ·	ТҮРЕ С	OF ACTION			
Notice of I	Intent	🗖 Acidize	Dee	pen	D Product	tion (Start/Resume)	🗖 Wat	er Shut-Off
_		Alter Casing	🗖 Fra	cture Treat	🗖 Reclam	ation	🗖 Wel	l Integrity
Subsequer	it Report	Casing Repair	🗖 Nev	w Construction	🗖 Recom	plete	🛛 Othe	er e to Original A
🗖 Final Abar	ndonment Notice	Change Plans		g and Abandon		rarily Abandon	PD	
		Convert to Injection	🗆 Plu	g Back	U Water I	Disposal		
testing has bee determined tha THIS IS FO FWL SEC 3 The surface	n completed. Final Ab t the site is ready for fi R A CHANGE TO 4, T17S R27E. location on the ori	THE ORIGINAL APD. T	ied only after all HE SURFAC	requirements, inclu E LOCATION W nacceptable what	ding reclamatio	n, have been completed E AT 2405' FNL & 2 335	, and the ope	rator has
the surface	location to 2405' F he same. Please	e middle of the proposed NL & 2440' FWL SEC 34 see the attached new C-	4 T17S R27E	. The proposed	bottom hole	location		
					Accente	d for record - NA	AOCD	
					()	12	\sim	
			<u>-</u>		S	monder	y orde	J-
14. I hereby certi	fy that the foregoing is	Electronic Submission #	RESOURCES	II-A, L.P., sent to	o the Carlsba	d		
Name (Printed)	(Typed) MIKE PIP		proceeding by	1	DLEUM ENG			
Signature	(Electronic S	an a		Date 10/05/2				
		THIS SPACE FO			OFFICE U	SE		
Approved By	Cet 4-	lytz		Title fr	FIELD N	ANAGER	Da	ite 1/19/7
certify that the appli which would entitle	cant holds legal or equ the applicant to condu		e subject lease	Office		FIELD OFFICE		
Title 18 U.S.C. Sect States any false, fi	ion 1001 and Title 43 I ctitious or fraudulent s	U.S.C. Section 1212, make it a tatements or representations as	crime for any p to any matter w	erson knowingly and ithin its jurisdiction	d willfully to m	ake to any department o	r agency of	the United
	** OPERAT	OR-SUBMITTED ** O	PERATOR	SUBMITTED	** OPERAT	OR-SUBMITTED) **	

District J	NM OF State of New Mexico A	IL CONSERVA ARTESIA DISTRICI	TION Form C-102
1625 N. French Dr. Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> S11 S. First St., Artesin, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Energy, Minerals & Natural Resources Depa OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	uttanen 23 2017	
Phone: (505) 476-3460 Fax: (505) 476-3462			
	WELL LOCATION AND ACREAGE DEDICAT	ION PLAT	
30-15-4388	² Pool Code 95 836 Red	Lake, G	L-YEFONE
⁴ Property_Code	⁵ Property Name		⁶ Well Number
308957	EAGLE 34 K FEDERAL		77
'OGRID No.	^s Operator Name		" Elevation

	^s Operator Name	
LIME	ROCK RESOURCES II-A, L	P.
	Surface Location	

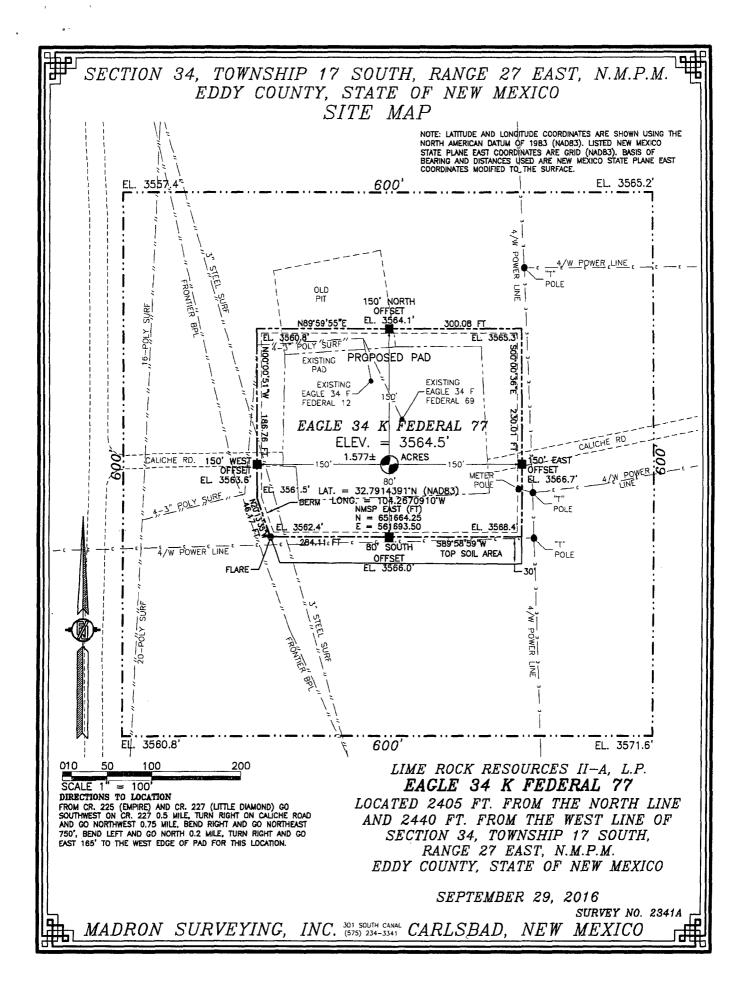
277558

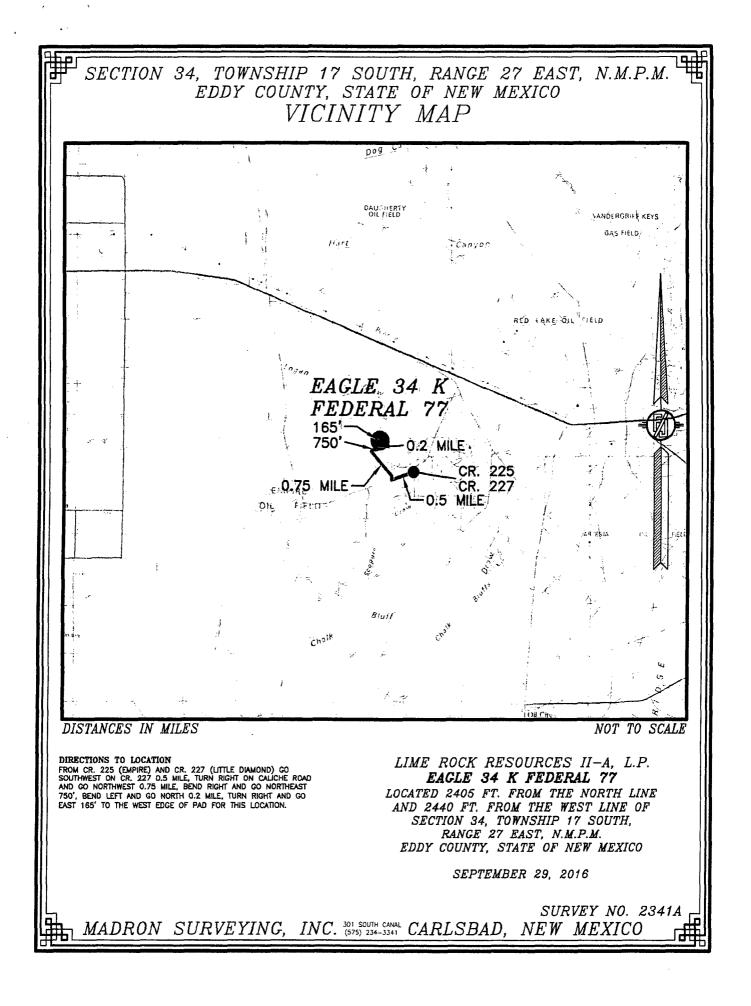
3564.5 🖌

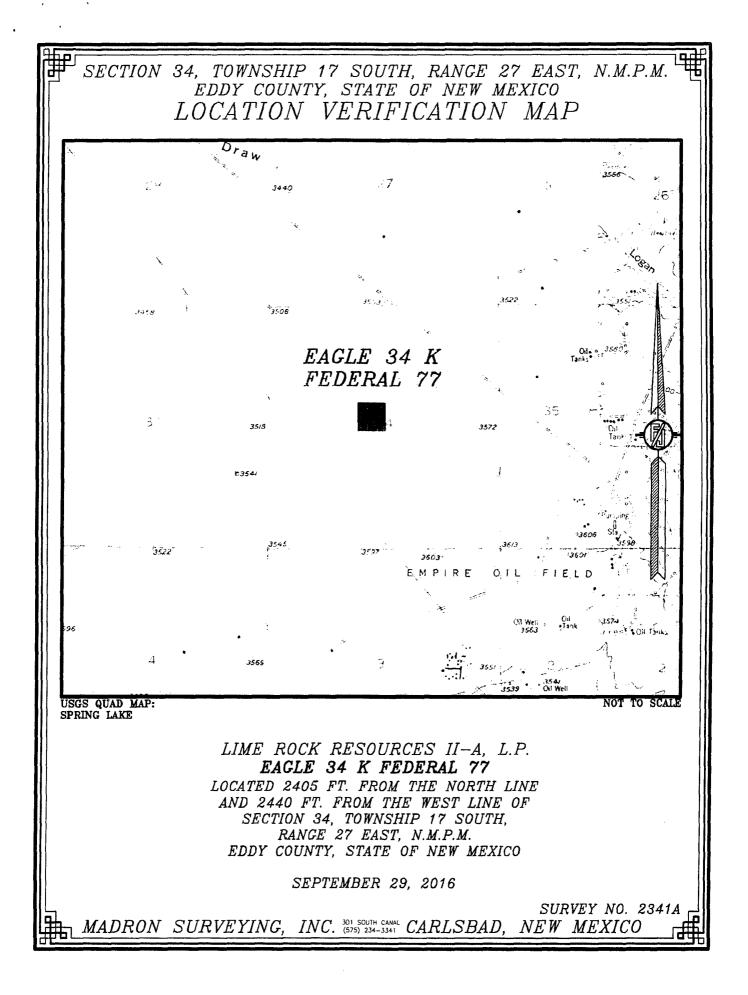
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	34	17 S	27 E		2405	NORTH	2440	WEST	EDDY
	<u> </u>	<u> </u>	" B	ottom Ho	ole Location	If Different Fr	om Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	17 S	27 E		2310	SOUTH	2285	WEST	EDDY
Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	n Code	Lun	· · · · · · · · · · · · · · · · · · ·	¹⁵ Order No.		

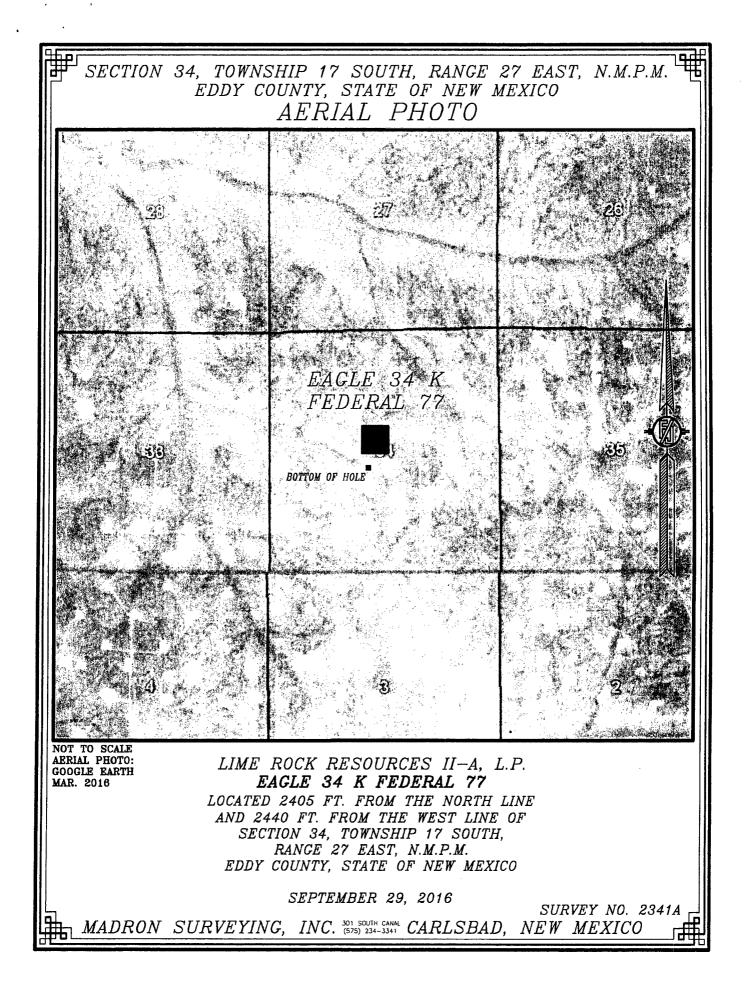
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

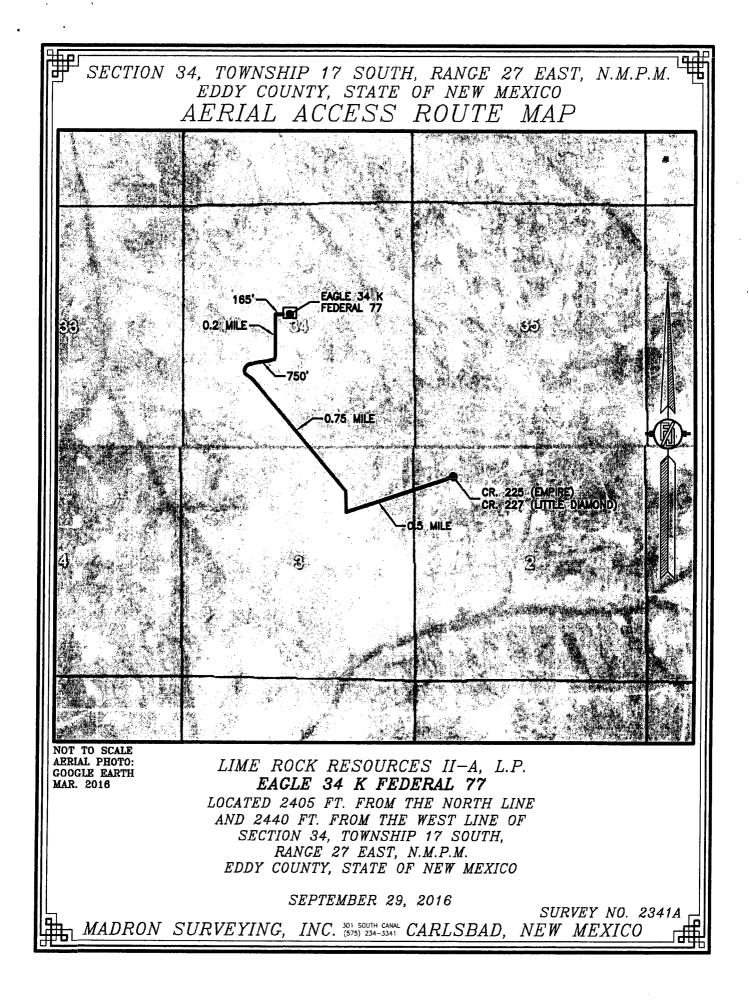
	N89'05'18"E 2595.15 FT	N89'05'43"E 2594.17 FT	" OPERATOR CERTIFICATION
	NW CORNER SEC. 34	N/4 CORNER SEC. 34 NE CORNER SEC. 34 LAT. = 32.79805531N LAT. = 32.79816301N	I hereby certify that the information contained herein is true and complete to the
	LAT = 32.7979460'N	LAT. = 32.7980553'N LAT. = 32.7981630'N LONG. = 104.2665830'W LONG. = 104.2581435'W	best of my knowledge and neuef, and that this organization either owns a
	LONG. = 104.2750255'W NMSP EAST (FT)	NMSP EAST (FT) NMSP EAST (FT)	working interest or unleased mineral interest in the land including the proposed
-	N = 654030.12	N = 654071.39 $N = 654112.34$	bottom hole location or has a right to drill this well at this location pursuant to
	E = 559253.94	2 - 301040.10	a contract with an owner of such a mineral or working interest, or to a
0.95	EAGLE 34 K FEDERAL 77	4.4	voluntary pooling agreement or a compulsory pooling order heretofore entered
2650.95	ELEV. = 3564.5'	NOTE: LATITUDE AND LONGTUDE COORDINATES ARE	by the division.
		(NAD83). LISTED NEW MEXICO STATE PLANE EAST	
15"	NMSP EAST (FT)	COCRDINATES ARE GRID (NAD83). BASIS OF BEARING ON AND DISTANCES USED ARE NEW MEXICO STATE PLANE	Signature Date
.0	N = 651664.25 E = 561693.50	EAST COORDINATES MODIFIED TO THE SURFACE.	
N00.00,12,M	W/4 CORNER SEC. 34 SURFACE	R	Printed Name
	LAT. = 32.7906614'N LOCATION		Fined Nane
	LONG. = 104.2750296'W	E/4 CORNER SEC. 34	
		LAT. = 32.7907869'N	E-mail Address
	$\frac{NMSP}{N} = \frac{651379.86}{6}$	<u>LONG. = 104.2580275'W</u> NMSP_EAST_(FT)	· · · · · · · · · · · · · · · · · · ·
	E = 559254.14	N = 651428.83	"SURVEYOR CERTIFICATION
	2285'	E = 564478.85	I hereby certify that the well location shown on this plat was
H	BOTTOM		plotted from field notes of actual surveys made by me or under
2 11	BOTTON OF NOLE	a	my supervision, and that the same is true and correct to the
2649.22	<i>BOTTOM OF HOLE</i> LAT. = 32.7897394'N	2687.11	best of my belief.
264	LONG. = 104.2675959'W NMSP EAST (FT)	268	SEPTEMBER 29. 2016
			Ore to Jul Sty
01'22"W	N = 651045.78 E = 561538.71	6.56,	Date of Survey
		0.46	1 / V Valer 1
.00N	SW CORNER SEC. 34	S/4 CORNER SEC. 34 SE CORNER SEC. 34	1 1 (and) top 6 / a
	LAT. = 32.7833815'N LONG. = 104.2750310'W	LAT. = 32.7833928'N LAT. = 32.7834033'N LONG. = 104.2664711'W LONG. = 104.2579143'W	C VACEUTALU D
	NMSP EAST (FT)	NMSP EAST (FT) NMSP EAST (FT)	Signature and Sett or Professional Surveyor 2
	N = 648731.32	N = 648737.00' $N = 648742.59'$	Certificate Number, FURMON F-JARAMILLO, P/S 12797
	E = 559255.19 S89'52'34"W 2631.33 FT	$\frac{E = 561885.83}{S89'52'42''W} = \frac{E = 564515.53}{2630.39}$	SS SURVEY NO. 2341A
	309 JZ 34 W 2031.JJ FI	309 JZ 42 W 2030.39 FT	and the second

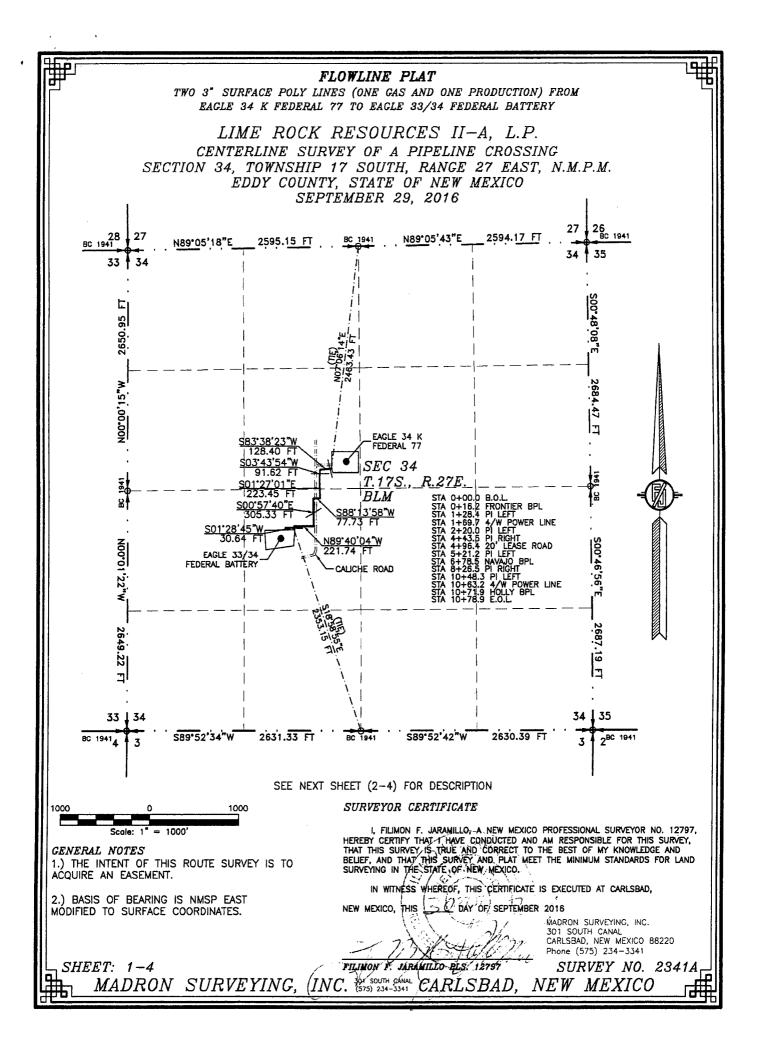




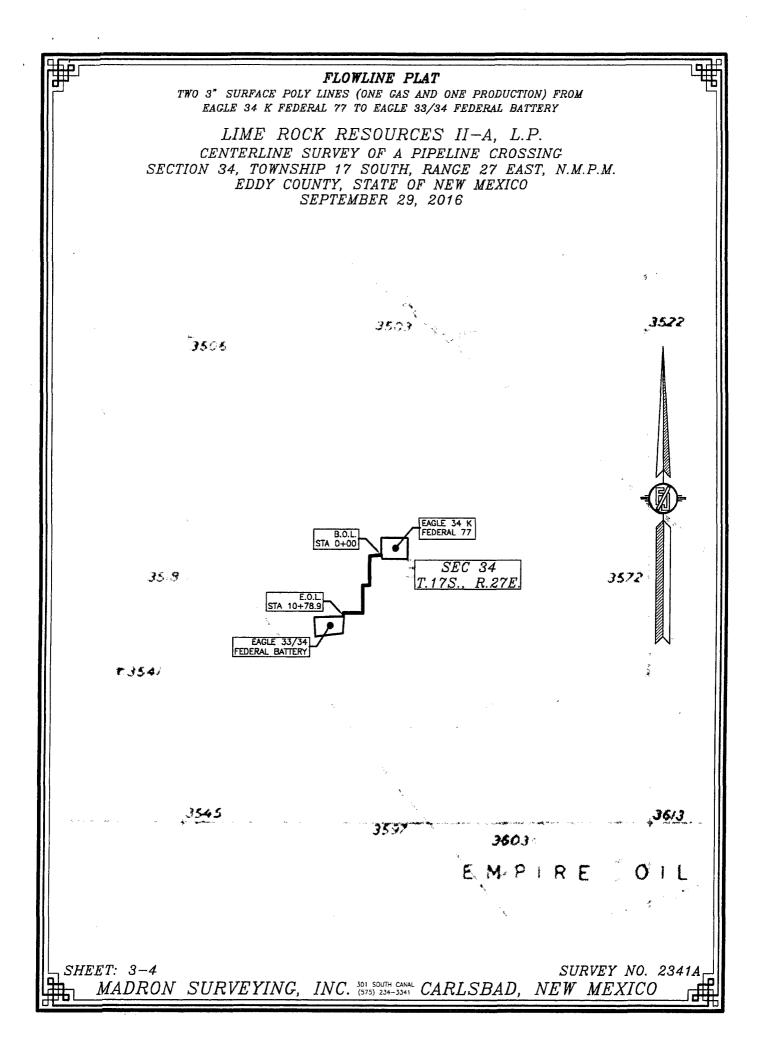


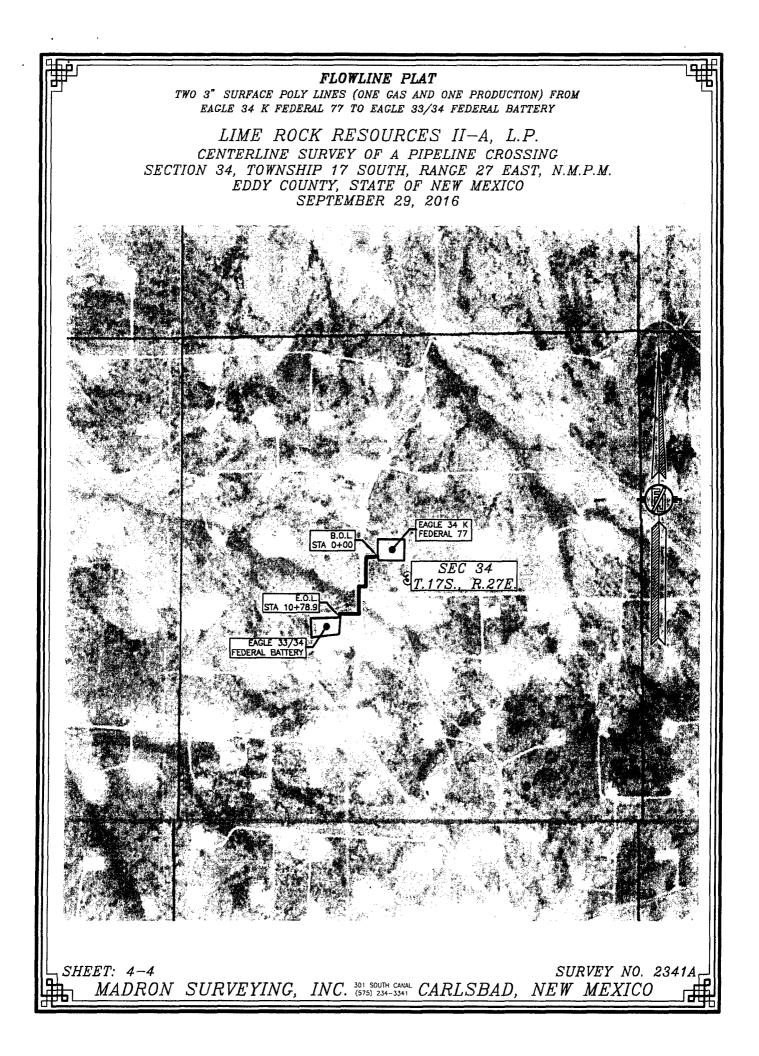


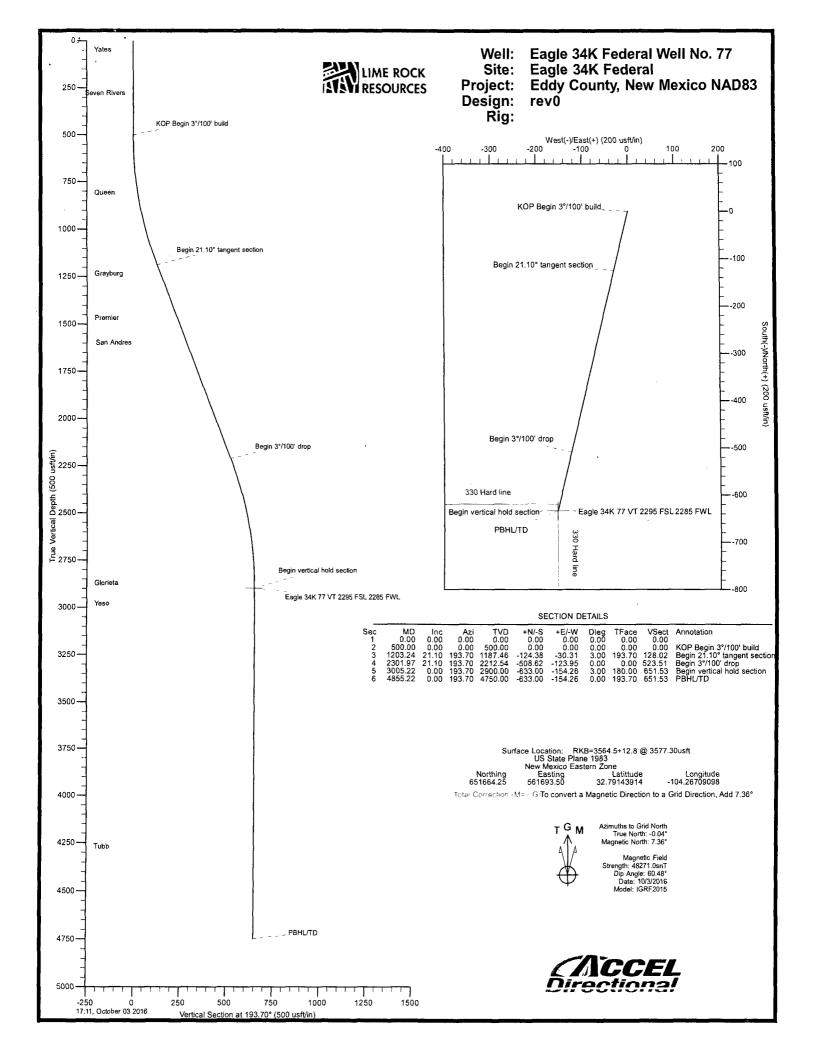




		FLOWLINE PLAT CE POLY LINES (ONE GAS AND ONE PRODUCTION) FROM K FEDERAL 77 TO EACLE 33/34 FEDERAL BATTERY	ַרַ
	CENTERI SECTION 34, TO	E ROCK RESOURCES II—A, L.P. LINE SURVEY OF A PIPELINE CROSSING OWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M. DY COUNTY, STATE OF NEW MEXICO SEPTEMBER 29, 2016	
SOUTH, RANGE		DESCRIPTION ROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 34, TOWN EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SI SURVEY:	
N.M.P.M., WHEI N.M.P.M. BEAR THENCE S83"3 THENCE S03"4 THENCE S01"2 THENCE S88"1 THENCE S00"5 THENCE N89"4 THENCE S01"2	NCE THE NORTH QUAF S NO7'06'14"E, A DIS 8'23"W A DISTANCE O 3'54"W A DISTANCE O 7'01"E A DISTANCE O 3'58"W A DISTANCE O 0'04"W A DISTANCE O 8'45"W A DISTANCE O IER OF SAID SECTION	SE/4 NW/4 OF SAID SECTION 34, TOWNSHIP 17 SOUTH, RANGE 27 RTER CORNER OF SAID SECTION 34, TOWNSHIP 17 SOUTH, RANGE 2 TANCE OF 2463.43 FEET; IF 128.40 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 91.62 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 223.45 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 77.73 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 305.33 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 221.74 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED F 30.64 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE 34, TOWNSHIP 17 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S18*58	7 EAST, 2D; D; D; D; D; D; ED; E THE SOUTH
	LAND BEING 1078.92 LOCATED BY FORTIES	2 FEET OR 65.39 RODS IN LENGTH, CONTAINING 0.743 ACRES MORE AS FOLLOWS:	OR LESS
SE/4 NW/4 NE/4 SW/4		.72 RODS 0.235 ACRES .67 RODS 0.508 ACRES	
		SURVEYOR CERTIFICATE	
ACQUIRE AN EASEN	RING IS NMSP EAST	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SI HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY	FOR THIS SURVEY, KNOWLEDGE AND TANDARDS FOR LAND CARLSBAD, MING, INC. JAL MEXICO 88220







LIME ROCK

Standard_Report

•

•

.

							,
Company: Project:	Lime Rock Resources Eddy County, New Mexico NAD83	083		3 4	Local Co-ordinate Reference: TVD Reference:		II No. 77 30ust
Site:	Eagle 34K Federal			W	ND Reference:	RKB=3564.5+12.8 @ 3577.30usft	30usft
Well: Wellbore:	Eagle 34K Federal Well No. 77 Original hole			Ŭ.	North Reference: Surrow Calculation Methods	Grid Minimum Cuovatura	
Design:	rev0			, ,	batabase:	DB Jul2216dt	
Project	Eddy County. New Mexico NAD83	Mexico NAD83					
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Fastern Zone	e.		U L	System Datum:	Mean Sea Level	
Site							
Site Position:			Northing:	651,14	651,144.01 usft Latit	Latitude:	32.79001075
From: Position Uncertainty:	Map inty: 0.00 usft		Easting: Slot Radius:	560,75 13-		Longitude: Grid Convergence:	-104.27013362 0.03 °
Well	Eagle 34K Federal	Eagle 34K Federal Well No. 77. Surf Loc: 2405 FNL 2440 FWL Sec34-T17S-R27E	5 FNL 2440 FWL Sec34-T	17S-R27E			
Well Position	+N/-S 0.00 usft	sft	Northing:	651 664 25 usft	sf t	Latitude:	32.79143914
		sft	Easting:	561,693.50 usft	sft	Longitude:	-104.26709098
Position Uncertainty	inty 0.00 usft	sft	Wellhead Elevation:		sft	Ground Level:	3,564.50 usft
Wellbore	Original hole	1 • •		No	8		
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle رم	Field Strength (nT)		
	IGRF2015	10/3/2016	7.39	60.48	48,271		
Design	rev0						
Audit Notes:							
Version:		Phase: PLAN		Tie On Depth:	0.00		
Vertical Section:		Depth From (TVD) (iisft)	++ S-/N+	+E/-W Di	Direction		
		0.00			193.70		
Survey Tool Program	ogram Date 10/3/2016		:				
From (usft)	To (usft) Survey (Weilbore)	llbore)	Tool Name	Description			
Ö	0.00 4,855.22 rev0 (Original hole)	al hole)	QWW	MWD - Standard			

10/3/2016 5-12-53PM

L

LIME ROCK

Standard_Report

. .

aral Well No. 77 8 3577.30usft 8 3577.30usft	Easting (usft)	561,693.50	561,693.50	561,693.50	561,693.50	561,693.50	561,693.50	561,692.88	561,691.02	561,687.93	561,683.62	561,678.09	561,671.37	561,663.47	561,663.19	561,654.94	561,646.42	561,637.90	561,629.38	561,620.85	561,612.33	561,603.81	561,595.29	561,586.76	561,578.24	561,569.72
Well Eagle 34K Federal Well No. 77 RKB=3564,5+12,8 @ 3577,30usft RKB=3564,5+12,8 @ 3577,30usft Grid Minimum-Curvature DB Jul2216dt	Northing (usft)	651,664.25	651,664.25	651,664.25	651,664.25	651,664.25	651,664.25	651,661.71	651,654.09	651,641.41	651,623.70	651,601.02	651,573.43	651,541.00	651,539.87	651,506.04	651,471.06	651,436.09	651,401.12	651,366.15	651,331.18	651,296.20	651,261.23	651,226.26	651,191.29	651,156.32
· Reference: n Method:	V. Sec (usft)	0.00	0.00	0.00	0,00	0.00	0.00	2.62	10.46	23.51	41.74	65.08	93.48	126.85	128.02	162.84	198.84	234.84	270.83	306.83	342.82	378.82	414.81	450.81	486.80	522.80
Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	DLeg (°/100usft)	0.00	0.00	0,00	0.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	00.0	0.00	0.00	0.00	00.0	0.00	0,00	0.00	0.00	0.00	0.00
	E/W (usft)	0.00	0.00	0.00	0.00	0.00	0.00	-0.62	-2.48	-5.57	-9.88	-15.41	-22.13	-30.03	-30.31	-38.56	-47.08	-55.60	-64.12	-72.65	-81.17	-89,69	-98.21	-106.74	-115.26	-123.78
	N/S (usft)	0.00	0.00	0.00	0.00	0.00	0.00	-2.54	-10.16	-22.84	-40.55	-63.23	-90.82	-123.25	-124.38	-158.21	-193.19	-228.16	-263.13	-298,10	-333.07	-368,05	-403.02	-437.99	-472.96	-507.93
	TVD (usft)	0.00	100.00	200.00	300.00	400.00	500.00	599.95	699.63	798.77	897.08	994.31	1,090.18	1,184.43	1,187.46	1,277.73	1,371.03	1,464.32	1,557.62	1,650.92	1,744.22	1,837.51	1,930.81	2,024.11	2,117.40	2,210.70
NAD83	Azi (azimuth) (°)	0.00	0.00	00.0	0.00	0.00	0.00	193.70	193.70	193.70	193.70	193.70	193.70	193.70	193.70	193.70	. 193.70	193.70	193.70	193.70	193.70	193.70	193.70	193.70	193.70	193.70
Lime Rock Resources Eddy County, New Mexico NAD83 Eagle 34K Federal Eagle 34K Federal Well No. 77 Original hole rev0	Inc Az (°)	0,00	00.00	0.00	0.00	0.00	0.00	• build 3.00	6,00	9.00	12.00	15.00	18.00	21.00	21.10	ent section 21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10	21.10
×	Planned Survey MD (usft)	0,00	100.00	200.00	300.00	400.00	500.00	KOP Begin 3°/100' build 600.00	700.00	800.00	00'006	1,000.00	1,100.00	1,200.00	1,203.24	Begin 21.10° tangent section 1,300.00 21.	1,400.00	1,500.00	1,600.00	1,700.00	1,800.00	1,900.00	2,000.00	2,100.00	2,200.00	2,300.00
Company: Project: Site: Well: Wellbore: Design:	Hann																									

COMPASS 5000 1 Build 81B

10/3/2016 5:12:53PM

LIME ROCK	RESOURCES

Standard_Report

.

,

Well Eagle 34K Federal Well No. 77 RKB=3564,5+12.8 @ 3577,30usti RKB=3564,5+12.8 @ 3577,30usti

Grid Minimum Curvature DB Jul2216dt

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

Company:	Lime Rock Resources
Project:	Eddy County, New Mexico NAD83
Site:	Eagle 34K Federal
Well:	Eagle 34K Federal Well No. 77
Wellbore:	Original hole
Design:	rev0
Planned Survey	

1	Sul
	σ
1	ō
	~
	C
÷.	<u>_</u>
	5
	-

MD (JJsn)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
2,301.97	21.10	193.70	2,212.54	-508.62	-123.95	0.00	523.51	651,155.63	561,569.55
Begin 3°/100' drop 2,400.00	18.16	193.70	2.304.86	-540.61	-131.74	3.00	556.43	651,123.64	561,561.76
2,500.00	15.16	193.70	2,400.66	-568.46	-138.53	3.00	585.09	651,095.79	561,554.97
2,600.00	12.16	193.70	2,497.82	-591.39	-144.12	3.00	608.70	651,072.86	561,549.38
2,700.00	9.16	193.70	2,596.08	-609.36	-148.50	3.00	627.19	651,054.89	561,545.00
2,800.00	6.16	193.70	2,695.18	-622.30	-151.65	3.00	640.51	651,041.95	561,541.85
2,900.00	3.16	193.70	2,794.84	-630.18	-153.57	3.00	648.63	651,034.07	561,539.93
3,000.00	0.16	193.70	2,894.78	-632.99	-154.26	3.00	651,52	651,031.26	561,539.24
3,005.22	0.00	193.70	2,900.00	-633.00	-154.26	3.00	651.53	651,031.25	561,539.24
Begin vertical hold section	ection								
3,100.00	0.00	0.00	2,994.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
3,200.00	00.00	0.00	3,094.78	-633,00	-154.26	0.00	651.53	651,031.25	561,539.24
3,300.00	00.00	0.00	3,194.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
3,400.00	0.00	0.00	3,294.78	-633,00	-154.26	0.00	651.53	651,031.25	561,539.24
3,500.00	0.00	0.00	3,394.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
3,600.00	00.00	0.00	3,494.78	-633,00	-154.26	0.00	651.53	651,031.25	561,539.24
3,700.00	0.00	0.00	3,594.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
3,800.00	00'0	0.00	3,694.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
3,900.00	0.00	0.00	3,794.78	-633.00	-154.26	00.00	651.53	651,031.25	561,539.24
4,000.00	0.00	0.00	3,894.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
4,100.00	0.00	0.00	3,994.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
4,200.00	00.0	0.00	4,094.78	-633.00	-154.26	0.00	651,53	651,031.25	561,539.24
4,300.00	0.00	0.00	4,194.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
4,400.00	0.00	0.00	4,294.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24
4,500.00	00.00	0.00	4,394.78	-633.00	-154.26	00.00	651,53	651,031.25	561,539.24

COMPASS 5000.1 Build 81B

10/3/2016 5:12:53PM

LIN	LIME ROCK				Stanc	Standard_Report					. ,
Company: Project: Site: Well: Wellore: Design:	Lime Rock Resources Eddy County, New Me Eagle 34K Federal Eagle 34K Federal We Original hole rev0	Lime Rock Resources Eddy County, New Mexico NAD83 Eagle 34K Federal Eagle 34K Federal Vell No. 77 Original hole revo	AD83 7				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	e Reference: n Method:	Well Eagle 34K Federal Well No. 77 RKB=3564.5+12.8 @ 3577.30usft RKB=3564.5+12.8 @ 3577.30usft Grid Minimum Curvature DB Jul2216dt	deral Well No. 77 @ 3577.30usft @ 3577.30usft e	
Planned Survey MD		A 7) (;	Azì (azimuth)	L L				V Sec			
(usft)			(.)	(1Jsn)	(usft)	(usft)	÷	v. sec	(usft)	(tjsn)	
4,700.00	00.0	0.00	0.00	4,594.78	-633.00	-154.26	0.00	651.53	651,031.25	561,539.24	
4,800.00		0.00	0.00	4,694.78 4 750 00	-633.00 -633.00	-154.26 154.26	0.00	651.53 651.53	651,031.25 651 031 25	561,539.24 561 539 24	
PBHL/TD	0										
	Measured Depth	Vertical Depth					Dip Direction				
	(Isft)	(nsft)		Name	Lithology	Abo	(°) (°)	_			
	1,283.14	1,262.00	Grayburg			;	0.00				
	3,113.22		Yeso				0,00				
	311.00		Seven Rivers				0,00				
	837.76 75.00	836.00	Queen Vates				0,00				
	1,533,95		Premier				0.00				
	4,403.22	4,298.00	Tubb				0.00				
	3,005.22	2,900.00	Glorieta				0.00				
	1,590.76	1,549.00	San Andres				0.00				
Plan Annotations	SI		-			1 1 1					
	Measured	Vertical	Local C	Local Coordinates							
	Depth (usft)	Depth (usft)	(1Jsn)	+E/-W (usft)	Comment						
	500.00	500.00	0.00	0.00	KOP Begin 3°/100' build)' build					
	1,203.24	1,187.46	-124.38	-30.31	Begin 21.10° tangent section	ent section					
	2,301.97	2,212.54	-508.62	-123.95	Begin 3°/100' drop	0					
	3,005.22	2,900.00	-633.00		Begin vertical hold section	d section					
	4,855.22	4,750.00	-633.00	-154.26	PBHL/TD						

•

.

10/3/2016 5:12:53PM

I

NM OIL CONSERVATION

ARTESIA DISTRICT

JAN 2 3 2017

PECOS DISTRICT CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	Lime Rock Resources II-A, L.P.
LEASE NO.:	NMLC-067849
WELL NAME & NO.:	Eagle 34 K Federal 77
SURFACE HOLE FOOTAGE:	2405'FSL & 2440'FWL
BOTTOM HOLE FOOTAGE	
LOCATION:	Section 34, T. 17 S., R. 27 E., NMPM
COUNTY:	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
Communitization Agreement
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
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)

Communitization Agreement:

- 1. The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- 2. If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- 3. In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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 pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad

Closed Mud System Using Steel Tanks with All Fluids and Cuttings Hauled Off.

A closed mud system using steel tanks for all cuttings and fluids is required. All fluids and cuttings will be hauled off site for disposal. <u>No pits are allowed</u>.

Tank Battery Liners and Berms:

Tank battery locations 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 $1\frac{1}{2}$ 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

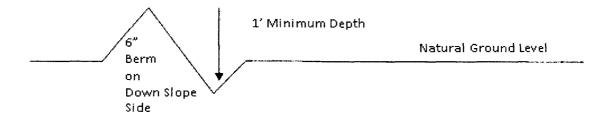
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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: $\underline{400'}_{4\%}$ + 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.

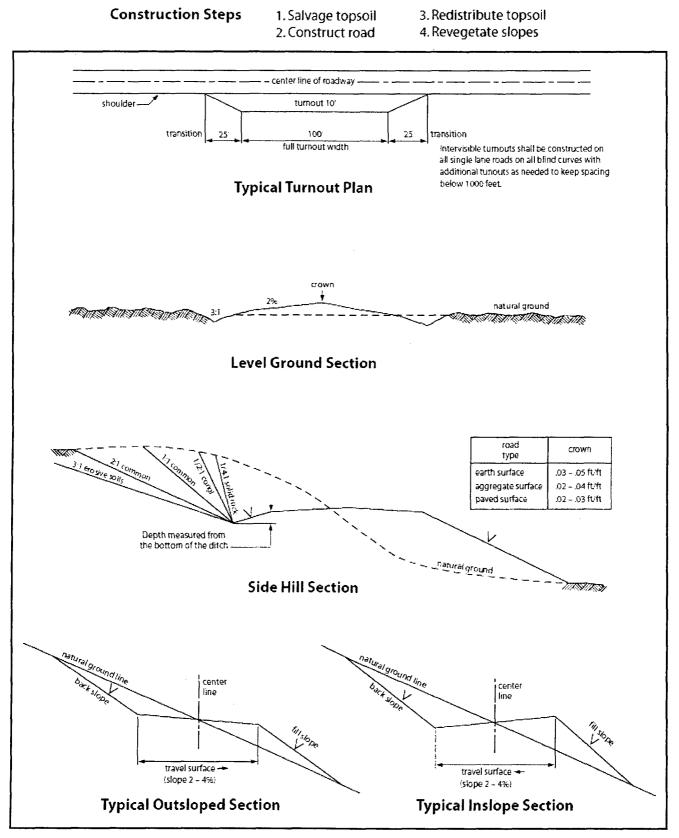


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. 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 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, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review 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. 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. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard 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 in particular, 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. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

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

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

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

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

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of 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/she 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 Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

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

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

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

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

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

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

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

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

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

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

measures will be made by the authorized officer after consulting with the holder.

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

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

VIII. 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 1 for Loamy Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed shall 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 shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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	lb/acre
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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