

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
311 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31228	² Pool Code 39189	³ Pool Name LINDRETH GALLUP-DAKOTA WEST
⁴ Property Code 301276	⁵ Property Name JICARILLA APACHE TRIBAL 124	⁶ Well Number #15
⁷ OGRID No. 143199	⁸ Operator Name ENERVEST OPERATING, LLC	⁹ Elevation 7024'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	24	25N	4W		1586'	SOUTH	465'	WEST	RIO ARRIBA

¹¹Bottom Hole Location If Different From Surface

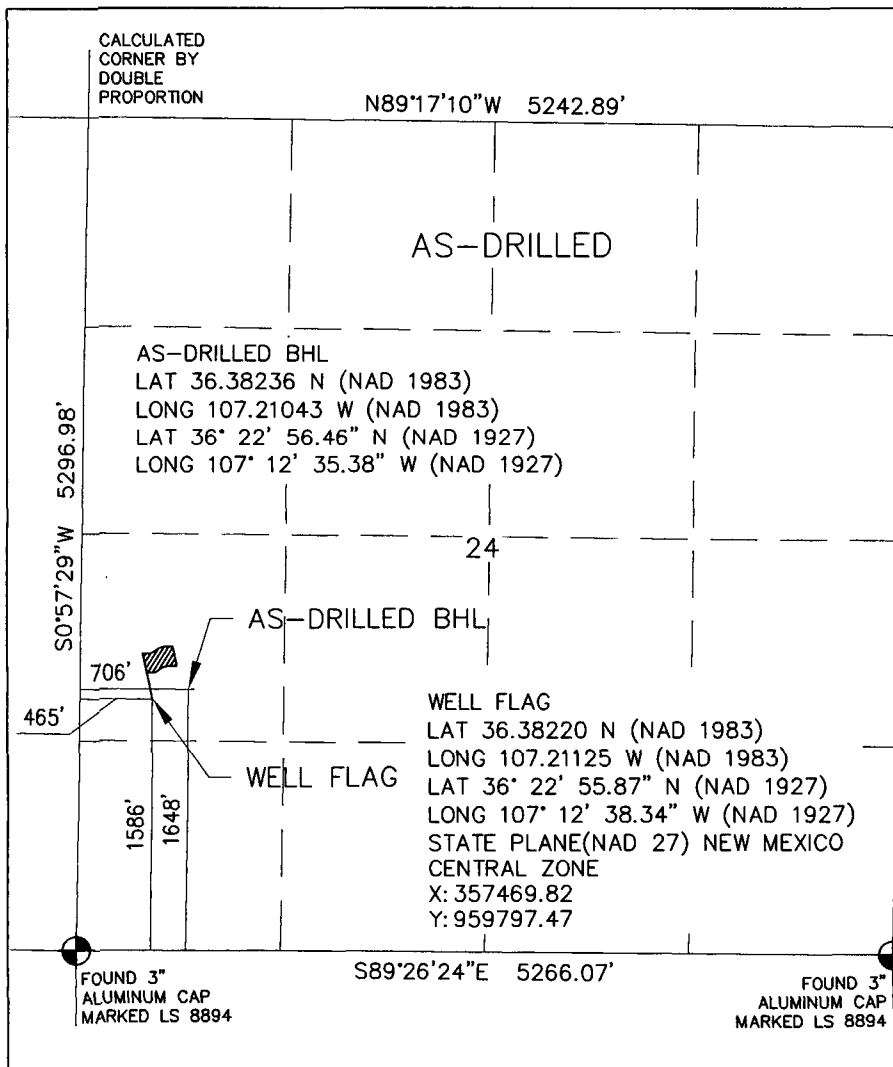
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	24	25N	4W		1648'	SOUTH	706'	WEST	RIO ARRIBA

¹² Dedicated Acres —	¹³ Joint of Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

OIL CONS. DIV. DIST. 3

SEP 08 2014



¹⁷OPERATOR 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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

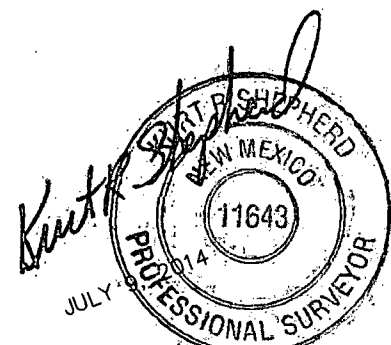
Michelle Doecker 09-25-14
Signature Date

Michelle Doecker
Printed Name
mdoecker@enervest.net
E-mail Address

¹⁸SURVEYOR 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.

Survey Date: JANUARY 6, 2014

Signature and Seal of Professional Surveyor



Certificate Number 11643



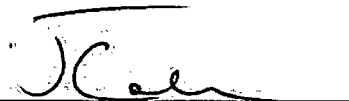
Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	EnerVest Operating LLC
Well Name & No.	Jicarilla Apache 124 #15
County & State	Rio Arriba County, NM
SDI Job No.	330614DEF160259
Rig	D&J 2

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 0 feet to a measured depth of 7,980 feet is true and correct as determined from all available records.


Signature

20-Jun-14
Date

Janie Collins
Colorado District Well Planner
Scientific Drilling International

RCVD SEP 11 '14
OIL CONS. DIV.
DIST. 3

Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla Apache 124 #15
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Site:	Jicarilla	MD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Well:	Jicarilla Apache 124 #15	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project:	Rio Arriba County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Jicarilla				
Site Position:		Northing:	-274,017,644.35 usft	Latitude:	7° 5' 24.101 S
From:	Lat/Long	Easting:	372,015,898.75 usft	Longitude:	42° 3' 21.841 E
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.00 °

Well	Jicarilla Apache 124 #15					
Well Position	+N/-S	0.00 ft	Northing:	1,959,798.19 usft	Latitude:	36° 22' 55.920 N
	+E/-W	0.00 ft	Easting:	1,357,470.06 usft	Longitude:	107° 12' 40.500 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	7,024.00 ft

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2014	6/5/2014	9.34	63.20	50,223

Design:	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	76.07	

Survey Program	Date 6/20/2014			
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
545.00	7,980.00	Survey #1 - MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
545.00	0.65	17.57	544.99	2.95	0.93	1.62	0.12	0.12	0.00
First SDI MWD Survey									
636.00	1.92	75.65	635.97	3.82	2.57	3.41	1.84	1.40	63.82
728.00	4.97	84.87	727.79	4.56	8.03	8.89	3.36	3.32	10.02
820.00	2.90	69.19	819.57	5.74	14.18	15.14	2.52	-2.25	-17.04
910.00	2.20	81.76	909.48	6.80	18.01	19.12	0.99	-0.78	13.97
1,002.00	2.46	78.07	1,001.41	7.46	21.69	22.85	0.33	0.28	-4.01
1,097.00	2.71	81.79	1,096.31	8.20	25.91	27.12	0.32	0.26	3.92
1,191.00	2.65	81.91	1,190.21	8.82	30.26	31.49	0.06	-0.06	0.13
1,284.00	2.55	81.07	1,283.11	9.45	34.43	35.69	0.12	-0.11	-0.90

Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla Apache 124 #15
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Site:	Jicarilla	MD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Well:	Jicarilla Apache 124 #15	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,379.00	2.32	79.49	1,378.02	10.12	38.41	39.72	0.25	-0.24	-1.66
1,472.00	2.23	75.40	1,470.95	10.92	42.01	43.41	0.20	-0.10	-4.40
1,564.00	2.21	81.77	1,562.88	11.63	45.50	46.96	0.27	-0.02	6.92
1,658.00	2.07	79.49	1,656.82	12.20	48.96	50.46	0.17	-0.15	-2.43
1,753.00	1.76	78.15	1,751.76	12.81	52.08	53.63	0.33	-0.33	-1.41
1,848.00	2.20	81.93	1,846.71	13.37	55.31	56.90	0.48	0.46	3.98
1,942.00	2.04	84.40	1,940.64	13.78	58.76	60.35	0.20	-0.17	2.63
2,035.00	2.37	65.23	2,033.57	14.75	62.16	63.88	0.86	0.35	-20.61
2,128.00	2.41	66.68	2,126.49	16.33	65.70	67.70	0.08	0.04	1.56
2,222.00	2.22	57.68	2,220.42	18.09	69.05	71.37	0.44	-0.20	-9.57
2,316.00	2.18	68.49	2,314.35	19.71	72.25	74.87	0.44	-0.04	11.50
2,411.00	1.76	63.32	2,409.29	21.03	75.24	78.09	0.48	-0.44	-5.44
2,505.00	2.84	81.74	2,503.22	22.01	78.83	81.81	1.38	1.15	19.60
2,600.00	2.88	79.52	2,598.10	22.79	83.51	86.54	0.12	0.04	-2.34
2,695.00	2.45	84.84	2,692.99	23.40	87.88	90.93	0.52	-0.45	5.60
2,790.00	2.77	73.78	2,787.90	24.23	92.10	95.23	0.63	0.34	-11.64
2,885.00	2.66	79.61	2,882.79	25.27	96.48	99.72	0.31	-0.12	6.14
2,977.00	3.32	83.31	2,974.66	25.96	101.22	104.50	0.75	0.72	4.02
3,071.00	3.12	69.82	3,068.52	27.16	106.33	109.74	0.83	-0.21	-14.35
3,164.00	3.13	68.86	3,161.38	28.95	111.07	114.77	0.06	0.01	-1.03
3,259.00	3.08	70.42	3,256.24	30.74	115.89	119.89	0.10	-0.05	1.64
3,354.00	2.19	67.75	3,351.14	32.28	119.98	124.22	0.95	-0.94	-2.81
3,449.00	2.20	59.26	3,446.07	33.90	123.23	127.76	0.34	0.01	-8.94
3,543.00	2.90	85.36	3,539.98	35.02	127.15	131.84	1.42	0.74	27.77
3,637.00	2.58	78.92	3,633.87	35.62	131.59	136.30	0.47	-0.34	-6.85
3,731.00	2.30	90.08	3,727.79	36.02	135.56	140.24	0.59	-0.30	11.87
3,826.00	2.04	86.24	3,822.72	36.13	139.15	143.75	0.31	-0.27	-4.04
3,921.00	3.05	78.65	3,917.62	36.74	143.31	147.94	1.12	1.06	-7.99
4,016.00	2.42	79.80	4,012.51	37.59	147.77	152.47	0.67	-0.66	1.21
4,112.00	3.49	73.64	4,108.39	38.77	152.56	157.41	1.16	1.11	-6.42
4,206.00	3.17	73.32	4,202.23	40.32	157.80	162.87	0.34	-0.34	-0.34
4,300.00	2.37	72.80	4,296.12	41.64	162.15	167.40	0.85	-0.85	-0.55
4,395.00	2.39	78.37	4,391.03	42.62	165.96	171.34	0.24	0.02	5.86
4,489.00	2.96	77.76	4,484.93	43.53	170.25	175.73	0.61	0.61	-0.65
4,580.00	2.45	82.81	4,575.83	44.28	174.48	180.01	0.62	-0.56	5.55
4,673.00	2.95	68.12	4,668.73	45.42	178.67	184.35	0.91	0.54	-15.80
4,764.00	2.91	71.78	4,759.61	47.01	183.04	188.97	0.21	-0.04	4.02
4,858.00	2.12	69.70	4,853.52	48.36	186.94	193.08	0.85	-0.84	-2.21
4,952.00	2.59	70.03	4,947.44	49.69	190.56	196.92	0.50	0.50	0.35
5,046.00	3.37	73.92	5,041.31	51.18	195.22	201.79	0.86	0.83	4.14
5,141.00	2.84	73.88	5,136.17	52.61	200.16	206.94	0.56	-0.56	-0.04
5,236.00	2.50	75.81	5,231.07	53.77	204.43	211.36	0.37	-0.36	2.03
5,331.00	2.24	73.71	5,325.99	54.80	208.22	215.29	0.29	-0.27	-2.21

Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla Apache 124 #15
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Site:	Jicarilla	MD Reference:	GL 7024' & RKB 13' @ 7037.00ft
Well:	Jicarilla Apache 124 #15	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,426.00	2.71	67.21	5,420.90	56.19	212.07	219.36	0.58	0.49	-6.84	
5,521.00	2.38	71.73	5,515.80	57.67	216.02	223.55	0.41	-0.35	4.76	
5,615.00	3.39	70.97	5,609.68	59.19	220.50	228.26	1.08	1.07	-0.81	
5,710.00	3.25	68.01	5,704.52	61.12	225.65	233.73	0.23	-0.15	-3.12	
5,804.00	2.49	82.94	5,798.41	62.37	230.15	238.39	1.13	-0.81	15.88	
5,898.00	1.81	94.28	5,892.34	62.51	233.65	241.83	0.85	-0.72	12.06	
5,992.00	0.29	202.06	5,986.33	62.17	235.04	243.10	2.04	-1.62	114.66	
6,086.00	0.38	201.51	6,080.32	61.66	234.84	242.78	0.10	0.10	-0.59	
6,180.00	0.26	223.17	6,174.32	61.22	234.58	242.42	0.18	-0.13	23.04	
6,275.00	0.47	162.31	6,269.32	60.69	234.55	242.26	0.43	0.22	-64.06	
6,368.00	0.41	175.27	6,362.32	60.00	234.69	242.24	0.12	-0.06	13.94	
6,461.00	0.45	179.17	6,455.31	59.30	234.73	242.10	0.05	0.04	4.19	
6,554.00	0.44	253.09	6,548.31	58.83	234.39	241.66	0.58	-0.01	79.48	
6,647.00	0.89	43.56	6,641.31	59.25	234.55	241.91	1.39	0.48	161.80	
6,741.00	0.71	24.29	6,735.30	60.31	235.29	242.89	0.34	-0.19	-20.50	
6,835.00	0.59	11.57	6,829.29	61.31	235.63	243.46	0.20	-0.13	-13.53	
6,929.00	0.39	2.31	6,923.29	62.11	235.74	243.75	0.23	-0.21	-9.85	
7,023.00	0.41	18.24	7,017.29	62.75	235.85	244.02	0.12	0.02	16.95	
7,114.00	0.24	63.62	7,108.29	63.14	236.13	244.38	0.32	-0.19	49.87	
7,209.00	0.51	183.65	7,203.29	62.81	236.28	244.45	0.70	0.28	126.35	
7,303.00	0.76	208.41	7,297.28	61.84	235.96	243.90	0.39	0.27	26.34	
7,394.00	1.15	213.29	7,388.27	60.55	235.17	242.83	0.44	0.43	5.36	
7,488.00	0.43	79.34	7,482.26	59.82	235.00	242.49	1.58	-0.77	-142.50	
7,583.00	0.79	75.87	7,577.26	60.05	235.98	243.50	0.38	0.38	-3.65	
7,678.00	0.86	86.22	7,672.25	60.26	237.33	244.85	0.17	0.07	10.89	
7,773.00	0.74	93.74	7,767.24	60.26	238.65	246.14	0.17	-0.13	7.92	
7,867.00	0.90	104.77	7,861.23	60.04	239.97	247.37	0.24	0.17	11.73	
7,920.00	0.93	88.14	7,914.22	59.94	240.80	248.15	0.50	0.06	-31.38	
Last SDI MWD Survey										
7,980.00	0.93	88.14	7,974.21	59.98	241.78	249.10	0.00	0.00	0.00	
Projection to TD										

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
545.00	544.99	2.95	0.93	First SDI MWD Survey
7,920.00	7,914.22	59.94	240.80	Last SDI MWD Survey
7,980.00	7,974.21	59.98	241.78	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Enervest Operating, LLC 1001 Fannin Street, Suite 800 Houston, TX 77002-6707		² OGRID Number 143199
		³ Reason for Filing Code/ Effective Date Test Allowable
⁴ API Number 30 - 039-31228	⁵ Pool Name Lindriith Gallup-Dakota, West NSL 7155	⁶ Pool Code 39189
⁷ Property Code 301276	⁸ Property Name Jicarilla Apache Tribal 124	⁹ Well Number #15

II. ¹⁰ Surface Location

Ul or lot no. L	Section 24	Township 25N	Range 04W	Lot Idn	Feet from the 1586'	North/South Line South	Feet from the 465'	East/West Line West	County Rio Arriba, NM
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¹¹ Bottom Hole Location

UL or lot no L	Section 24	Township 25N	Range 04W	Lot Idn	Feet from the 1648'	North/South line South	Feet from the 706'	East/West line West	County Rio Arriba, NM
¹² Lse Code J	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
304424	Associated Energy Services 2105 City West Blvd., Suite 100 Houston, Tx 77042	O
025244	Williams Oil Services PO Box 645 Tulsa, OK 74102	G
OIL CONS. DIV DIST. 3 SEP 08 2014		

IV. Well Completion Data

²¹ Spud Date 06/06/2014	²² Ready Date 09/12/2014	²³ TD 7980' MD 06/14/2014	²⁴ PBDT 7931'	²⁵ Perforations ~7629'-7721' 51-0.4" ~7762'-7824' 42-0.4"	²⁶ DHC, MC
²⁷ Hole Size 12-1/4"	²⁸ Casing & Tubing Size 8-5/8", 24#, J-55, ST&C	²⁹ Depth Set 515'	³⁰ Sacks Cement 297 (413 cu ft)		
7-7/8"	4-1/2", 11.6#, N-80 LT&C	7976'	Stg.1: 524 sx (1053 cf) PrLt HS; Stg.2: 268 sx (570cf) PrLt +50 sx (70cf) Type III; Stg.3: 405 sx (862cf) PrLt +50 sx (69 cf) Type III		
	2-3/8" 4.7# J-55	TBD			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Michelle Doescher			9-17-14 OIL CONSERVATION DIVISION Approved by: <i>Charles Perri</i> 9-17-2014 Title: SUPERVISOR DISTRICT # 3 Approval Date: SEP 17 2014		
Printed name: Michelle Doescher					
Title: Regulatory Consultant					
E-mail Address: sdoescher@enervest.net					
Date: 09/05/2014		Phone: 505-320-5682	NSL approval		