

## GENERAL DATA

**NAME** Rafael Antonio López Guzmán



**I.D. CITIZEN**

**ADDRESS**

**CITY**

**TELEPHONE NUMBER**

**MOBIL NUMBER**

**MARITAL STATUS**

**E - MAIL**

## ACADEMICS STUDIES

**UNIVERSITY** Nacional of Colombia

**DIPLOMA OBTAINED** Geologist\_Geophysicist – 1984

**OTHER STUDIES** Environmental Management Specialization - 1995

**UNIVERSITY** Militar de Colombia

## PROFESSIONAL EXPERIENCE

**32 YEARS**

## PROFESSIONAL PROFILE

- ✓ **32 años de experiencia en el diseño de parámetros técnicos para programas de exploración sísmica 2D&3D, como también planeación, supervisión, coordinación, liderazgo en la ejecución de proyectos de exploración sísmica 2D&3D usando como fuente de energía Sismigel y Vibroseis.**

- ✓ *Revisar técnicamente los proyectos y generar las recomendaciones tendientes a disminuir el riesgo e incertidumbres de los mismos.*
- ✓ *Valorar el riesgo geológico y avalar los cálculos de recursos prospectivos, con el fin de proseguir evaluación económica de los proyectos.*
- ✓ *Prestar asesoría técnica especializada en la generación de prospectos y en la planeación y perforación de pozos.*
- ✓ *Avalar especificaciones de los contratos de adquisición sísmica y de información técnica en su especialidad y de consultores especializados.*
- ✓ *Analizar e interpretar la información sísmica, geológica y geofísica del área de prospección para asegurar el desarrollo de los proyectos.*
- ✓ *Experticia en Adquisición sísmica 2D&3D, procesamiento y e interpretación sísmica 2D&3D*
  
- ***Technical supervision in 2D and 3D seismic processing in field an Bogota.***
- ✓ ***Technical parameters design for 2D&3D Land Seismic acquisition program.***
- ✓ ***Parameters design for 2D&3D processing programs in oil gas projects.***
- ✓ ***Planning, monitoring and control over the 2D/3D seismic program acquisition in coal projects and exploration in oil&gas projects.***
- ✓ ***Knowledge for seismic interpretation of 2D and 3D seismic programs in coal projects and oil&gas projects.***
- ✓ ***Pilots programs design to start seismic 2D and 3D in coal projects and oil&gas projects.***
- ✓ **Quality control in field of the different activities of a 2D/3D seismic program**
- ✓ **Determination costs for acquisition 3D and 2D seismic program.**
- ✓ **Elaboration of reference terms in order to bid 3D and 2D seismic programs.**
- ✓ **Assessment of proposals in order to award seismic 2D and 3D programs.**
- ✓ **Elaboration of reference terms for 2D / 3D seismic technical auditor.**
- ✓ **Main technical Auditor for 2D and 3D seismic programs acquisition.**
- ✓ **Inspector for prosecution of high rail 3D/ 2D programs seismic exploration.**
- ✓ **Director of techniques (Bird Dog) for seismic exploration programs 2D/3D**
- ✓ **Director of environmental, social and administrative provisions for 2D/3D seismic**
- ✓ **Director of surface geology projects on 2D and 3D seismic lines in coal and oil&gas**
- ✓ **Management of socio-environmental impacts in the acquisition of 2D and 3D seismic programs *in coal projects and oil&gas projects.***
- ✓ **Management processes in consulting with native and black communities in 2D and 3D seismic**
- ✓ **Plans Environmental Management-PMA-in 2D/3D seismic and drilling rigs**
- ✓ **Management Studies in Environmental Impact EIA-for-Exploratory drilling rigs**
- ✓ **Management in evaluating areas for E&P and TEAS contracts.**

## LABOR EXPERIENCE

**2017**

Technical Supervision and Quality control in the processing sequence for the cube 3D of the 3D Seismic Program VIBROSEIS in the 69 Block for Mansarovar Energy.

<b>2016</b>	
<b>Senior Geologist&amp;Geophysicist Advisor for MANSAROVAR.</b> Design parameters and Technical supervision in the field, using as a source of energy the <b>vibroiseis</b> in the 2D and 3D seismic program in the llanos 69 Block.	
<b>2015</b>	
<b>Technical Supervision for the 2D Seismic Line using VIBROSEIS in the Llanos 69 Block.</b>	
<b>2014</b>	
<b>Operations Manager between May and November/14, in Tesla Exploration Colombia SAS.</b>	
<b>2013 - 2006</b>	
<b>COMPANY</b>	<b>ESAG Ltda – Environmental Studies and Geophysics</b>
<b>POSITION APPOINTMENT</b>	Technical Manager and Technical supervisor for 2D&3D seismic programs. <b>(see pages: 8 to 10)</b>
<b>WORK ROLES</b>	Design parameters in 2D& 3D seismic programs, Coordinator, for developing environmental management plan of 2D and 3D seismic programs in coal projects and E&P projects. Technical auditor programs for 2D and 3D seismic exploration in coal projects and E&P projects. Environmental auditor programs for seismic exploration 2D/3D in coal projects and E&P projects Development of sealed letters for 2D/3D seismic exploration programs. <b>Technical supervision in processing 2D and 3D seismic exploration programs in coal projects and E&amp;P projects.</b> Surface geology Director on 2D seismic lines in coal projects and E&P projects
<b>PROJECTS WHICH I HAVE PARTICIPATED AS TECHNICAL MANAGER:</b>	<i>Seismic Program Cauchos Sur 3D; for GRANT to CEPCOLSA Seismic Program Barranca Lebrija 3D; for CSG to UT MOCAM. Seismic Program Esperanza 3D; for GSS to GEOPRODUCTION. Seismic Program Caño Sur 2D; for GRANT to ECOPETROL. Seismic Program Yamu 2D; for GSS for WINCHESTER. Seismic Program Entrerrios 3D; for CGL to UT ANDINA. Seismic Program La Silla Carbonera 3D; for CGL to MOMPOS OIL Seismic Program Perdices 2D; for GRANT to ECOPETROL S.A. Seismic Program Catatumbo 2D, for CGL to ECOPETROL S.A. Seismic Program Chiguaco 3D; for CGL to COMPETROL. Seismic Program Plato Norte 2D; for GRANT to ECOPETROL S.A. Seismic Program Chichimene 3D; for GSS to ECOPETROL S.A. Seismic Program Algarrobo 2D; for CGL to RANCHO HERMOSO.</i>

<b>2006 - 2001</b>	
<b>COMPANY:</b>	PEDERNAL PETROLEUM Co.
<b>CHARGE:</b>	Senior Geophysicist advisor and Technical Manager
<b>WORK ROLES:</b>	✓ Projects Consultant and advisor evaluating areas for E&P. <i>in coal projects and E&amp;P projects.</i>

<b>PROJECTS WHICH I HAVE PARTICIPATED AS ADVISOR:</b>	Projects for E&P and TEA in Llanos Foreland Basin, Lower Magdalena Valley Basin, Middle Magdalena Valley Basin and Putumayo valley Basin.
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<b>2001 - 1997</b>	
<b>COMPANY:</b>	TECNOPETROL
<b>POSITION APPOINTMENT:</b>	Environmental Manager and Senior Geophysicist Advisor
<b>WORK ROLES:</b>	Plans Environmental Management and Environmental Impact Studies for Production Fields Los Angeles and Santa Lucia. Designing and planning Los Angeles 3D seismic program in the production field in Los Angeles Middle Magdalena Valley Basin (M.M.V.Basin) Designing and planning Acordeon 2D seismic program in the narrow valley in V.M.M. Designing and planning EL RIO program seismic in (M.M.V.Basin)

<b>1997 – 1987 (Ten years)</b>	
<b>COMPANY:</b>	<b>ECOPETROL</b>
<b>POSITION APPOINTMENT:</b>	Environmental coordinator and technical supervisor, in the vice-presidency of Exploration.
<b>WORK ROLES:</b>	Design technical parameters. Environmental Coordinator for seismic exploration programs and drilling exploratory contracts association with ECOPETROL. Developing reference terms in order to implement 2D and 3D seismic exploration programmes. Evaluation of proposals and recommendations for the award of 2D and 3D seismic programs. Developing reference terms in order to award technical and environmental aspects of the 2D and 3D seismic program. Follow-up to obtaining environmental licenses granted by Environmental Ministry, for exploratory drilling projects. Financial and technical processing, for six years, for 2D and 3D seismic program, hired by ECOPETROL. Head of the Department in charge of operations and Contracts Management Explorer.

	CONTRACTING ENTITY	NAME SEISMIC PROGRAM	QUANTITY OF REGIST. KILOMETERS	DATE YEAR	GEOPHYSICAL COMPANY
ECOPELROL	GUALANDAY	304	1987	GEOSOURCE	
ECOPELROL	PUTUMAYO NORTE	209	1987	GSI	
ECOPELROL	PUTUMAYO SUR	239	1987	WAI	
ECOPELROL	PACHAQUIARO	30	1987	GSI	
ECOPELROL	TOLIMA	313	1988	GEOSOURCE	
ECOPELROL	CHANE CARBONERA	132	1988	WAI	
ECOPELROL	GUAJIRA	650	1988	GEOSOURCE	
ECOPELROL	PUTUMAYO REGIONAL	500	1988	WAI	
ECOPELROL	PUTUMAYO DETALLE	450	1988	GSI	
ECOPELROL	RIO PUTUMAYO	400	1988	GSI	
ECOPELROL	PUTUMAYO OESTE	300	1988	GSI	
ECOPELROL	TOLIMA	180	1989	GSI	
ECOPELROL	HUILA R. YAYA	45	1989	WAI	
ECOPELROL	SANTANDER	308	1989	SISMOCOL	
ECOPELROL	GUAJIRA	249	1989	SISMOCOL	
ECOPELROL	ATLANTICO	197	1989	GEOSOURCE	
ECOPELROL	SUCRE	200	1989	GEOSOURCE	
ECOPELROL	MAGDALENA	795	1989	GSI	
ECOPELROL	PUTUMAYO DETALLE	300	1989	GSI	
ECOPELROL	RIO MELUA	349	1989	GSI	
ECOPELROL	TOLIMA DETALLE	147	1990	GRANT NORPAC	
ECOPELROL	TUMACO	290	1990	H.G.S.	
ECOPELROL	GUAJIRA DETALLE	144	1990	DIGICON	
ECOPELROL	CICUCO DETALLE	495	1990	SISMOCOL	
ECOPELROL	SAN JACINTO	167	1990	SISMICOL	
ECOPELROL	PUTUMAYO OESTE	243	1990	SISMOCOL	
ECOPELROL	ORTEGA TOLIMA	100	1991	FRONTERAS	
ECOPELROL	SIMITI MORALES	90	1991	SISMOCOL	
ECOPELROL	AYAPEL	446	1991	GRANT NORPAC	
ECOPELROL	CICUCO SUR	389	1991	H.G.S.	
ECOPELROL	TUMACO	301	1992	WESTERN	
ECOPELROL	AYOMBE	50	1992	FRONTERAS	
ECOPELROL	PUTUMAYO CENTRAL	607	1992	SISMOCOL	
ECOPELROL	PUTUMAYO SAN Juan	206	1992	SISMOCOL	
ECOPELROL	VICHADA	776	1992	FRONTERAS	
ECOPELROL	CALARMA CUCUANA	110	1993	ECOSISMICA	
ECOPELROL	RIO YAYA DETALLE	102	1993	H.G.S.	
ECOPELROL	PIJIÑO	400	1993	ECOSISMICA	
ECOPELROL	SAN MIGUEL	300	1993	GAPS	
ECOPELROL	TIERRA NEGRA	150	1995	GAPS	
ECOPELROL	SAN LUIS	200	1995	GAPS	
ECOPELROL	SAN Juan NORTE	100	1996	GAPS	

<b>1987 - 1984</b>	
<b>COMPANY:</b>	Geophysical Service Inc. – G.S.I.
<b>POSITION APPOINTMENT:</b>	Seismologist and/or Geologist, and Quality Control in field
<b>ROLES WORK:</b>	Geologist, Quality Control in field (Q.C.) for different activities, during 2D exploratory seismic awarded to G.S.I. <b>USING VIBROSEIS</b>

<b>1984-1981</b>	
<b>COMPANY:</b>	INGETEC S.A.
<b>POSITION APPOINTMENT:</b>	Geology Assistant
<b>ROLES WORK:</b>	Geology assistant for different geotechnics and hydroelectric projects hired by Ingetec S.A.

